





LIBRARY
OF THE
UNIVERSITY
OF ILLINOIS

~~LIBRARY~~

~~LIBRARY~~

1969

Jy-D

DOCUMENTS

LIBRARY

~~REFERENCE~~

20

20

MONTHLY CATALOG

UNITED STATES

GOVERNMENT PUBLICATIONS

OCTOBER 1969

Entries 13537-14969

THE LIBRARY OF THE

NOV 18 1969

UNIVERSITY OF ILLINOIS

GERMAN

DISTRIBUTION OF PUBLICATIONS

In ordering publications listed in this catalog, it should be noted that *only* those marked with an asterisk (*) are obtainable from the Superintendent of Documents.

Publications marked with a farad (Φ) are sold by the Clearinghouse for Federal Scientific and Technical Information, Springfield, Va. 22151.

Where a single dagger (\dagger) is the distribution symbol, application should be made directly to the department or bureau issuing the document.

- * For sale by SUPERINTENDENT OF DOCUMENTS
- Φ For sale by Clearinghouse for Federal Scientific and Technical Information, Springfield, Va. 22151
- \dagger Distribution made by Issuing Office. Not definitely available if unaccompanied by a price
- \ddagger Printed for Official Use
(not available for distribution)
- Sent to Depository Libraries

SIZES OF PUBLICATIONS

Symbols used to designate sizes of publications listed in this catalog are as follows:

4°-----	6-12 inches high and width more than $\frac{3}{4}$ of height
large 4°-----	over 12 inches high and width more than $\frac{3}{4}$ of height
small 4°-----	under 6 inches high and width more than $\frac{3}{4}$ of height
8°-----	8-10 inches in height (size not given in entry except where publication is narrow or oblong)
large 8°-----	10-12 inches in height
12°-----	7-8 inches in height
16°-----	6-7 inches in height
24°-----	5-6 inches in height
32°-----	4-5 inches in height
48°-----	up to 4 inches high
f°-----	above 12 inches in height
narrow-----	width less than $\frac{3}{5}$ of height
oblong-----	width more than height

MONTHLY CATALOG

OF UNITED STATES

GOVERNMENT PUBLICATIONS



OCTOBER 1969

Number 897

Entries 13537-14969

Issued by the SUPERINTENDENT OF DOCUMENTS

U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 : 1969

L.C. Card 4-18088

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT
PRINTING OFFICE, WASHINGTON, D.C. 20402. PRICE 75 CENTS PER COPY
EXCEPT DECEMBER (INDEX) ISSUE, WHICH VARIES IN PRICE
SUBSCRIPTION PRICE \$7 PER YEAR (INCLUDING INDEX)
\$1.75 ADDITIONAL FOR FOREIGN MAILING

PREVIEWS

The following publications are in the process of being printed. Advance sales orders may be placed for these publications. Orders will be scheduled and copies mailed as soon as stocks are received. It is not possible to estimate the lapse of time before the publications will actually appear. All information in regard to title, series, classification, distribution, and price given in these listings is preliminary and subject to change when the publications actually come from the press. Those so marked will be sent to depository libraries, providing, that at the time of going to press, the libraries were on list to receive the items under which these publications will be distributed.

- Adverse reactions to hallucinogenic drugs, with background papers. (Public Health Service, Publication 1810.) \$1.25. ● FS 2.22: H 16/2
- Agricultural statistics, 1969. (Agriculture Department.) \$2.75. ● A 1.47: 969
- America's department of natural resources. (Interior Department, Conservation bulletin 39.) 40c. ● I 1.72: 39/4
- Atlas of cometary forms. (National Aeronautics and Space Administration, NASA SP-198.) \$2.25. ● NAS 1.21: 198
- Automation of rheumatic fever registries. (Public Health Service, Publication 1924.) \$1.00. ● FS 2.2: R 34/2
- Books related to compensatory education, Feb. 1969. (Education Office, OE-37045.) 50c. ● FS 5.237: 37045
- Building custodian, suggested guide for training course. (Education Office, OE-S7038.) 35c. ● FS 5.287: S7038
- Cheese varieties and descriptions. [Revised 1969.] (Agriculture Department, Agriculture handbook 54.) 65c. ● A 1.76: 54/969
- Cockroaches, how to control them. (Agriculture Department, Leaflet 430, revised.) 10c. ● A 1.35: 430/6
- Custer Battlefield. (National Park Service, Historical handbook no. 1, revised.) \$1.25. ● I 29:58: 1/3
- Developing human resources. (Atomic Energy Commission.) 25c. ● Y 3.At 7: 2 H 88
- Diesel servicing, suggested two year post high school curriculum. (Education Office, OE-S7045.) \$1.25. ● FS 5.287: 87045
- Documents on disarmament, 1968. (Arms Control and Disarmament Agency.) \$3.75. ● AC 1.11/2: 968
- Eat well for you and your baby who is on the way. (Children's Bureau.) 10c. ● FS 17.202: B 11/5
- Environment of Mesa Verde National Park, Colorado. (National Park Service, Archeological research series 7-D.) \$3.50. ● I 29.59: 7-D
- Extension work in public affairs. (Agriculture Department, PA series 932.) 10c. ● A 1.68: 932
- Family food buying, guide for calculating amounts to buy and comparing costs. (Agriculture Department, Home economics research report 37.) 35c. ● A 1.87: 37
- Family food stockpile for survival. (Agriculture Department, Home and garden bulletin 77, revised.) 10c. ● A 1.77: 77/5
- How foreign policy is made. (State Department, Publication 7707, General foreign policy series 195, revised.) 50c. ● S 1.71: 195/3
- How to plan drug abuse education workshop for teachers. (Public Health Service.) 25c. ● FS 2.22/15: D 84
- International family planning, bibliography. (Public Health Service, Publication 1917.) 35c. ● FS 2.22/13: F 21/2
- Interstate commerce act, together with text of supplementary acts and related sections of various other acts. [Revised 1969.] (Interstate Commerce Commission.) \$3.00. ● IC 1 act.5: 969
- LSD-25, factual account. (Narcotics and Dangerous Drugs Bureau.) \$1.00. ● J 24.8: L 99

- Manpower research, inventory for fiscal year 1968. (Education Office, OE-12036-68.) \$1.75. ● FS 5.212:12036-68
- Meat and poultry, labeled for you. (Agriculture Department, Home and garden bulletin 172.) 10c. ● A 1.77:172
- Mental health programs for the deaf. (Public Health Service, Publication 1954.) 15c. ● FS 2.22:D 35
- Monitors of United States Navy. (Naval Operations Office.) 50c. ● D 207.10/2:M 74
- National policy of apprenticeship for machinist. (Apprenticeship and Training Bureau.) 20c. ● L 23.2:M 18/5
- Natural resources of Oklahoma. (Interior Department.) 25c. ● I 1.91:Ok 4
- Parkinson's disease, hope through research. (Public Health Service, Publication S11, Health information series no. 100, revised.) 20c. ● FS 2.50:100/4
- Reduction in force in Federal agencies. (Civil Service Commission, Pamphlet 41, revised.) 10c. ● CS 1.48:41/12
- Report on high energy physics, 1969. (Atomic Energy Commission, Research and development report, WASH 1129.) \$1.50. ● Y 3.At 7:22/WASH 1129
- Research relating to children. (Children's Bureau, Publication no. 24.) \$1.50. ● FS 17.211:24
- Riverine warfare. [Revised 1969.] (Naval Operations Office.) 65c. ● D 207.10/2:R 52/969
- Silverfish and firebrats, how to control them. (Agriculture Department, Leaflet 412, slightly revised.) 10c. ● A 1.35:412/6
- Snowmobiles. (Business and Defense Services Administration.) 10c. ● C 41.2:Sn 6
- Starting and managing a small retail camera store. (Small Business Administration, Starting and managing series, vol. 17.) 40c. ● SBA 1.15:17
- States can help many children and families. (Children's Bureau, Publication 466.) 15c. ● FS 17.210:466
- Study of employment of women in Federal Government, 1968. (Civil Service Commission, Pamphlet SM 62-04.) \$2.00. ● CS 1.48:SM 62-04
- Survey of Federal Government publications of interest in small business. [3d edition, 1969.] (Small Business Administration.) 45c. ● SBA 1.18/2:G 74/969
- United States statutes at large, vol. 82, containing laws and concurrent resolutions enacted during 2d session of 90th Congress. (Federal Register Office.) \$16.25. ● GS 4.111:82

Contents

Previews -----	III
Abbreviations, Explanation-----	VI
General Information-----	VII
How To Order Publications-----	VIII
New Classification Numbers-----	IX
Corrections for Previous Monthly Catalogs -----	XI
List of Government Authors-----	XIII
Monthly Catalog-----	1
Index -----	99

Abbreviations

add-----	addition, addendum, addenda.	n. d.-----	no date.
amdt., amdts-----	amendment, amendments.	n. p.-----	no place.
app-----	appendix, appendixes.	no., nos-----	number, numbers.
bk., bks-----	book, books.	p-----	page, pages.
chap-----	chapter, chapters.	p. of pl-----	pages of plates.
Cong-----	Congress.	par., pars-----	paragraph, paragraphs.
Dept-----	Department.	pl-----	plate, plates.
doc-----	document.	por-----	portrait, portraits.
facsim-----	facsimile, facsimiles.	pt., pts-----	part, parts.
fy-----	fiscal year.	rp-----	report.
G.H.A-----	Greenwich hour angle.	S-----	Senate, Senate bill.
H-----	House.	S. Con. Res-----	Senate concurrent resolution.
H. Con. Res-----	House concurrent resolution.	S. doc-----	Senate document.
H. doc-----	House document.	S. ex. doc-----	Senate executive document.
H. ex. doc-----	House executive document.	S. ex. rp-----	Senate executive report.
H. J. Res-----	House joint resolution.	S. J. Res-----	Senate joint resolution.
H.R-----	House of Representatives, House bill.	S. Res-----	Senate resolution.
H. Res-----	House resolution.	S. rp-----	Senate report.
H. rp-----	House report.	sec-----	section, sections.
il-----	illustration, illustrations.	sess-----	session, sessions.
in-----	inch, inches.	Stat. L-----	Statutes at large.
lat-----	latitude.	supp-----	supplement.
long-----	longitude.	tab-----	table, tables.
m-----	mile.	Treas-----	Treasury.
		v-----	volume, volumes.
		vs., v-----	versus.

Common abbreviations for the names of States, months, etc., are also used.
 An explanation of the symbols used to designate sizes of publications is given on the inside of the front cover.

Explanation

The individual issuing department, bureau, office, or agency is considered the publisher of Government publications.

Words and figures enclosed in brackets [] in titles are given for information, but do not appear on the title pages of the publications cataloged. Place and printer are not given for publications printed at the United States Government Printing Office, Washington, D.C., or at Government departmental and field printing plants. The dates given with Senate and House documents and reports are the dates on which they were ordered to be printed. Usually the printing promptly follows the ordering, but various causes sometimes make delays.

Under provisions of the Printing Act of January 12, 1895, all Government publications, except administrative and confidential (or restricted), are entered in the Monthly Catalog.

The L.C. card number appended to some of the entries is for those libraries ordering printed cards from the Library of Congress. The number at the extreme right of an entry indicates the classification of the publication in the Office of the Superintendent of Documents.

General Information

The Superintendent of Documents, Government Printing Office, Washington, DC, is authorized by law to sell copies of Government publications and to allow a discount of 25 percent to book dealers and also to quantity purchasers of 100 or more copies of a single publication on condition that they will adhere to the public sales price set by the Superintendent of Documents and that publications shall not be overprinted with any advertising matter.

Publications cannot be supplied free to individuals nor forwarded in advance of payment.

PRICE LIST

There is no general price list of public documents, but numerous lists have been prepared on special subjects and any of these will be furnished free, on application, by subject or subjects concerning which information is desired. It will also be noted that current publications which are for sale are listed in this catalog.

LIST OF SELECTED PUBLICATIONS

In addition to the price lists, the Documents Office issues a biweekly list of Selected United States Government publications for sale by the Superintendent of Documents. Each list is arranged alphabetically by subjects, with annotations and prices, and may be obtained free upon application to the Superintendent of Documents.

CONGRESSIONAL BILLS, DOCUMENTS, AND REPORTS

More than 12,000 different bills are usually introduced during a Congress, and there are additional prints on many during the progress of the legislation. With the exception of a very few—such as revenue bills—the demand is an unknown quantity and on most of them we receive no orders, which makes it impossible to print a sales supply. It may be that a copy could be obtained from your Congressman.

A difficult problem is also presented in providing a supply of congressional documents, hearings, and reports because there are approximately 6,000 of this class of publications issued during a Congress and only a few of them are called for. We will attempt to print for sale a few of the more important ones, but if not priced the only possible source would be from your Congressman.

HOW TO ORDER PUBLICATIONS

Publications entered in this catalog that are for sale by the Superintendent of Documents are indicated by an asterick (*) preceding the price. Those for sale by the Clearinghouse for Federal Scientific and Technical Information are indicated by a farad (Φ) preceding the price. A black dot (●) indicates that the publication has been or will be sent to depository libraries. A dagger (†) indicates that application should be made to the department, bureau, or agency issuing the document. A double dagger (‡) indicates that the document is printed for official use and is not obtainable. Whenever additional information concerning the method of procuring a document seems necessary, it will be found under the name of the bureau by which it was published.

In ordering a publication from the Superintendent of Documents, give (if known) the name of the publishing department, bureau, or agency, and the title, together with the classification number which is added to the entry at the extreme right; order the congressional documents and reports by the title, together with the document or report number and the Congress, e.g., H. Doc. 103, 88th Congress.

Do not use the L.C. card number in ordering a publication from the Superintendent of Documents.

HOW TO REMIT

Remittances for documents marked with an asterick (*) should be made to the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, by coupon, postal money order, express order, or check. Publications cannot be mailed in advance of receipt of remittance. Currency may be sent at sender's risk. Foreign remittance should be made either by international money order or draft on an American bank.

Foreign money, defaced or smooth coins, will not be accepted. Do not send postage stamps.

For the convenience of the general public, coupons in the denomination of 5¢ that are good until used in exchange for Government publications sold by the Superintendent of Documents, may be purchased from this office. Address order to Superintendent of Documents, Government Printing Office, Washington, DC 20402.

Persons who make frequent purchases from the Superintendent of Documents may find a deposit account convenient. Deposits of \$25.00 or more are accepted against which orders may be placed without making individual remittances or first obtaining quotations. Order blanks are furnished for this purpose. After the handling of the order has been completed, it will be returned showing the publications supplied, explanations regarding those not sent, the amount of charge, and the balance on deposit.

No charge is made for postage on documents forwarded to points in United States and possessions, or to Canada, Cuba, Mexico, and certain Central and South American countries. To other countries the regular rate of postage is charged, and remittances must cover such postage. In computing foreign postage, add one-fourth of the price of the publication.

LIBRARY CLASSIFICATION IN DOCUMENTS OFFICE

The classification given at the right of entries for departmental publications is that used in the Library of the Division of Public Documents. It is also used as a catalog number for sales stock of this office. The shilling mark (/) separates what would ordinarily be superior or inferior numbers or letters, as it is not practicable to print these numbers or letters as superiors or inferiors in the Monthly Catalog.

New Classification Numbers

	Soil Conservation Service.
A 57.51 : nos_____	Technical releases.
A 57.54 : date_____	National Plant Materials Center annual report.
	Commerce Department.
C 1.56 : date_____	Directory of private programs for minority business enterprise.
	Census Bureau.
C 3.241 : nos_____	Census use study reports.
	Weather Bureau.
C 30.22/6 : CT_____	Weather Bureau marine services charts.
	Maritime Administration.
C 39.228 : Reserved	
C 39.229 : date_____	Oceangoing merchant ships of 1,000 gross tons and over lost and scrapped during calendar year.
C 39.230 : date_____	Oceangoing foreign flag merchant type ships of 1,000 gross tons and over owned by the United States parent companies (semi-annual).
C 39.231 : date_____	Containerships under construction and on order (including conversions) in United States and foreign shipyards, oceangoing ships of 1,000 gross tons and over (semi-annual).
C 39.232 : date_____	United States flag containerships and United States flag ships with partial capacities for containers and/or vehicles (semiannual).
	Environmental Science Services Administration.
C 52.21/3 : Reserved	
C 52.21/4 : date_____	Scientific and technical publications of ESSA Research Laboratories.
	NOTE.—Formerly entitled Scientific and technical publications of Institutes for Environmental Research.
C 52.21/5 : date_____	Management information on ERL's scientific and technical publications (annual).
	Defense Department.
D 7.1/10 : date_____	Annual historical summary: Defense Documentation Center.
D 7.21 : date_____	Annual report to Congress on national industrial reserve under Public law 883, 80th Congress.
	Army Department.
D 105.14/4 : nos_____	HDL [Harry Diamond Laboratories] technical disclosure bulletin.
	Military Academy, West Point.
D 109.10 : nos_____	USMA library bulletin.
	Naval Personnel Bureau.
D 208.14/6 : CT_____	U.S. Naval Postgraduate School: Publications (unnumbered).
	Naval Facilities Engineering Command.
D 209.16 : nos_____	NAVFAC Technical Training Center: NTTC courses.
	Air Force Department.
D 301.26/19 : nos_____	USAF historical studies.

D 301.26/20 : v.nos-----	Air University abstracts of research reports (annual).
D 301.56/3 : (date)	Military Airlift Command : Airlift Service management report (annual).
FP 1.30 : (date)	Federal Power Commission. Cost of pipeline and compressor station construction under non-budget type of certificate authorizations as reported by pipeline companies (annual).
FS 2.22/13-9 : date-----	National Institutes of Health. NIH quarterly publications list.
FS 2.22/63 : CT-----	Chemotherapy fact sheets.
FS 2.60/18 : date-----	Public Health Service. National Communicable Disease Center food-borne outbreaks annual summary.
FS 2.74/6 : date-----	Representative construction cost of Hill-Burton hospitals and related health facilities (biannual).
FS 2.86/6 : date-----	Annual statistical review, hospital and medical services. NOTE.—Issued by Division of Indian Health. See, for earlier class, FS 2.2 : In 25/17.
FS 2.86/7 : date-----	Division of Indian Health, annual discharge summary.
FS 2.92/4 : date-----	Training Institute of Environmental Control Administration, bulletin of courses (annual).
FS 2.211/3 : CT-----	National Library of Medicine. Selected list of audiovisuals.
I 49.71 : nos-----	Sport Fisheries and Wildlife Bureau. Wildlife portrait series.
I 67.19 : nos-----	Federal Water Pollution Control Administration. Robert A. Taft Water Research Center : Report TWRC- (series).
J 1.1/2 : date-----	Justice Department. Annual report of Law Enforcement Assistance Administration.
J 24.3 : v.nos.& nos-----	Narcotics and Dangerous Drugs Bureau. BNDD bulletin.
L 1.39/10 : date-----	Labor Department. Manpower technical exchange.
L 33.1 : date-----	Unemployment Insurance Service. Annual report.
L 33.2 : CT-----	General publications.
L 33.3 : -S : Reserved	
L 33.9 : nos-----	Benefit series service, unemployment insurance report (monthly). NOTE.—See, for earlier class L 7.37 : (date).
L 34.1 : date-----	Training and Employment Service. Annual report.
L 34.2 : CT-----	General publications.
L 34.3 : -S : Reserved	
L 34.9 : date-----	Area trends in employment and unemployment (monthly). NOTE.—See, for earlier class, L 7.51/3 : (date).
S 18.28/a : CT-----	International Development Agency. Proposed foreign aid program, fiscal year, summary presentation to Congress (separates).
SI 1.30 : nos-----	Smithsonian Institution. Smithsonian contributions to paleobiology.

Public Roads Bureau.

- TD 2.122: Reserved
 TD 2.123: CT----- Bibliographies and list of publications.
 TD 2.124: date----- New developments in highways.
 TD 2.125: date----- Conference proceedings [of] AASHO Committee on Electronics.
 National Highway Safety Bureau.
 TD 2.210/3: nos----- Highway safety literature compilations.
 Motor Carrier Safety Bureau.
 TD 2.312: date----- Analysis of motor carrier accidents involving vehicle defects or mechanical failure.
 NOTE.—See, for earlier similar publication, IC 1 mot.20:(date).
 Federal Aviation Administration.
 TD 4.19/4: date----- Military air traffic activity report.
 TD 4.28: date----- Acceptable methods, techniques, and practices: Aircraft alterations.
 NOTE.—See, for earlier class, FAA 5.16:(date).
 TD 4.28/2: date----- Acceptable methods, techniques, and practices: Aircraft inspection and repair.
 NOTE.—See, for earlier class, FAA 5.15:(date).
 TD 4.30: nos----- System package program, NS-SPP-(series).
 TD 4.31: date----- Annual national aviation system planning review conference, summary report.
 Air Traffic Service.
 TD 4.312: date----- Index of standard instrument approach procedures (semiannual).
 Systems Research and Development Service.
 TD 4.510: CT----- Addresses.
 Aircraft Development Service.
 TD 4.611: nos----- Report FAA DS-(series).
 Pacific Southwest Inter-Agency Committee.
 Y 3.P 11/2: 1/date----- Report.
 Y 3.P 11/2: 2 CT----- General publications.

Corrections for Previous Monthly Catalogs

- July 1964. Entry 11919 Orienting parents in clinic for retarded. Correct class to read FS 3.207/2a: R 313.
 Dec. 1965. Entry 18998, Role of child welfare in mental retardation. Correct class to read FS 14.110: B 39.
 May 1968. Entry 6650, North Cascades [National Park and Ross Lake National Recreation area, a proposal]. Correct class to read I 29.6: N 81c.
 June 1968. Entry 7927, Some facts relating to job situation in New York. Correct class to read L 2.92: N 42y/968.
 Dec. 1968. Page 135, 1st column, under Architecture: design for all Americans, report of National Commission on Architectural Barriers to Rehabilitation of the Handicapped, change 14691 to read 14091.
 Jan. 1969. Entry 471, Inventory of congressional concern with research and development, 90th Congress, 1st session, pt. 3, Bibliography. Correct class to read Y 4.G 74/6: R 31/2/pt. 3.
 Feb. 1969. Entry 1865, FHA regulations [Home mortgage regulations, amendments]. Correct class to read HH 2.6: M 84/7/964/trans. 64.
 Apr. 1969. Entry 5438, Compensation increases for service-connected disabled veterans, H.R. 16027, as enacted by Congress. Correct class to read Y 4.F 49: V 64/16.
 June 1969. Entry 8784, U.S. food and fiber policy for future, summary report of National Advisory Commission on Food and Fiber. Please change the date of publication from [1969.] to [1967.].
 June 1969. Entry 8816, Smokers self-testing kit: pt. 1, Tests. Correct class to read FS 2.6/2: Sm 7/30/969/pt.1.
 June 1969. Entry 8817, Smokers self-testing kit: pt. 2, Interpretation of test scores. Correct class to read FS 2.6/2: Sm 7/3/969/pt. 2.
 Aug. 1969. Entry 11061 FHA regulations [Home mortgage regulations, amendments]. Correct class to read HH 2.6: M 84/7/964/trans. 65.



List of Government Authors

	Beginning entry
Agriculture Department.....	13583
Agricultural Research Service.....	13537
Agricultural Stabilization and Conservation Service.....	13558
Consumer and Marketing Service.....	14063
Economic Research Service.....	14123
Federal Extension Service.....	14192
Forest Service.....	14248
Rural Electrification Administration.....	14850
Soil Conservation Service.....	14864
Statistical Reporting Service.....	14931
Appalachian Regional Commission.....	13650
Atomic Energy Commission.....	13684
Civil Aeronautics Board.....	13779
Civil Rights Commission.....	13784
Civil Service Commission.....	13786
Commerce Department.....	13802
Business and Defense Services Administration.....	13726
Census Bureau.....	13732
Economic Development Administration.....	14117
Environmental Science Services Administration.....	14158
Coast and Geodetic Survey.....	13798
Weather Bureau.....	14963
International Commerce Bureau.....	14418
Maritime Administration.....	14485
National Bureau of Standards.....	14662
Patent Office.....	14765
United States Travel Service.....	14955
Congress	13824
Atomic Energy Joint Committee.....	13847
Economic Joint Committee.....	13848
House of Representatives.....	13849
Agriculture Committee.....	13911
Appropriations Committee.....	13916
Armed Services Committee.....	13919
Banking and Currency Committee.....	13921
Education and Labor Committee.....	13924
Foreign Affairs Committee.....	13928
Government Operations Committee.....	13930
Internal Security Committee.....	13933
Merchant Marine and Fisheries Committee.....	13934
Post Office and Civil Service Committee.....	13935
Public Works Committee.....	13939
Rules Committee.....	13940
Science and Astronautics Committee.....	13941

Congress—Continued	Beginning Entry
House of Representatives—Continued	
Small Business, Select Committee on.....	13942
Veteran's Affairs Committee.....	13943
Ways and Means Committee.....	13944
Printing Joint Committee.....	13947
Senate	13948
Aeronautical and Space Sciences Committee.....	14011
Aging, Special Committee on.....	14012
Agriculture and Forestry Committee.....	14014
Appropriations Committee.....	14015
Armed Services Committee.....	14016
Banking and Currency Committee.....	14017
Commerce Committee.....	14020
District of Columbia Committee.....	14022
Finance Committee.....	14024
Foreign Relations Committee.....	14031
Government Operations Committee.....	14032
Interior and Insular Affairs Committee.....	14039
Judiciary Committee.....	14047
Labor and Public Welfare Committee.....	14052
Nutrition and Human Needs, Select Committee on.....	14058
Post Office and Civil Service Committee.....	14059
Public Works Committee.....	14060
Small Business, Select Committee on.....	14062
Court of Claims.....	14073
Defense Department.....	14078
Air Force Department.....	13610
Armed Forces Information Service.....	13551
Army Department.....	13652
Civil Defense Office.....	13780
Engineers Corps.....	14147
Military Academy, West Point.....	14519
Ordnance Corps.....	14761
Navy Department.....	14756
Marine Corps.....	14484
Medicine and Surgery Bureau.....	14495
Naval Facilities Engineering Command.....	14722
Naval Operations Office	
Naval Observatory.....	14724
Naval Oceanographic Office.....	14725
Naval Personnel Bureau.....	14737
Naval Research Office.....	14741
District of Columbia.....	14116
Federal Field Committee for Development Planning in Alaska.....	14193
Federal Home Loan Bank Board.....	14202
Federal Maritime Commission.....	14208
Federal Power Commission.....	14212
Federal Reserve System Board of Governors.....	14225
Federal Trade Commission.....	14238

	Beginning Entry
General Accounting Office.....	14301
General Services Administration.....	14325
Federal Supply Service.....	14235
National Archives and Records Service.....	14654
Federal Register Office.....	14224
Public Buildings Service.....	14776
Government Printing Office	
Public Documents Division.....	14777
Health, Education, and Welfare Department.....	14378
Education Office.....	14127
Public Health Service.....	14778
Consumer Protection and Environmental Health Service	
Food and Drug Administration.....	14247
National Institutes of Health.....	14682
National Library of Medicine.....	14699
Social and Rehabilitation Service	
Children's Bureau.....	13776
National Center for Social Statistics.....	14676
Rehabilitation Services Administration.....	14846
Social Security Administration.....	14861
Federal Credit Unions Bureau.....	14191
Housing and Urban Development Department.....	14382
Federal Housing Administration.....	14204
Interior Department.....	14400
Fish and Wildlife Service	
Commercial Fisheries Bureau.....	13811
Sport Fisheries and Wildlife Bureau.....	14883
Federal Water Pollution Control Administration.....	14239
Geographic Names Board.....	14326
Geological Survey.....	14328
Indian Affairs Bureau.....	14399
Mines Bureau.....	14521
National Park Service.....	14700
Reclamation Bureau.....	14824
Interstate Commerce Commission.....	14430
Justice Department.....	14431
Immigration and Naturalization Service.....	14398
Narcotics and Dangerous Drugs Bureau.....	14564
Prisons Bureau.....	14775
Labor Department.....	14435
Labor Standards Bureau.....	14443
Labor Statistics Bureau.....	14451
Manpower Administration	
Employment Security Bureau.....	14146
Training and Employment Service.....	14943
Unemployment Insurance Service.....	14954
Solicitor.....	14882
Women's Bureau.....	14969
Library of Congress.....	14482
Copyright Office.....	14067

	Beginning Entry
National Academy of Sciences.....	14565
National Aeronautics and Space Administration.....	14566
National Foundation on the Arts and the Humanities	
National Endowment for the Humanities.....	14678
National Labor Relations Board.....	14697
National Science Foundation.....	14716
Pacific Southwest Inter-Agency Committee.....	14764
Post Office Department.....	14767
President of United States.....	14773
Executive Office of the President	
Economic Opportunity Office.....	14120
Railroad Retirement Board.....	14823
Selective Service System.....	14852
Ship Structure Committee.....	14854
Small Business Administration.....	14855
Smithsonian Institution.....	14857
National Collection of Fine Arts.....	14677
National Gallery of Art.....	14680
State Department.....	14890
International Development Agency.....	14425
Tariff Commission.....	14939
Tennessee Valley Authority.....	14942
Transportation Department.....	14944
Coast Guard.....	13800
Federal Aviation Administration.....	14178
Air Traffic Service.....	13639
Aircraft Development Service.....	13644
Airports Service.....	13648
Flight Standards Service.....	14246
Systems Research and Development Service.....	14936
Federal Highway Administration	
Motor Carrier Safety Bureau.....	14563
National Highway Safety Bureau.....	14681
Public Roads Bureau.....	14813
Federal Railroad Administration.....	14223
National Transportation Safety Board.....	14717
Treasury Department.....	14946
Customs Bureau.....	14074
Engraving and Printing Bureau.....	14157
Internal Revenue Service.....	14410
Secret Service.....	14851
Veterans Administration.....	14960

Monthly Catalog

NO. 897 • OCTOBER 1969

AGRICULTURAL RESEARCH SERVICE, Agriculture Dept.
Washington, DC 20250

- ARS (series). A 77.15:(nos.)
- 13537 34-106. Catalog of genera, species, and subordinate taxa in orange subfamily Aurantioideae (Rutaceae) crops research [with list of literature cited; by J. B. Carpenter and P. C. Reece]. May 1969. cover title, 181 p. 4° ([Crops Research Division.]) [Text on p. 2 and page 181 on p. 3 of cover.] †
L.C. card 71-603660
- 13538 44-211. DHIA sire summary list, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, May 1969. cover title, 455 p. 4° [Text on p. 2 of cover.] † • Item 25-B
- 13539 44-212. DHIA cow performance index list, registered progeny of DHIA sires, Sept. 1968-May 1969. Aug. 1969. cover title, 464 p. 4° [Text on p. 2 of cover.] † • Item 25-B
- 13540 91-76. Recommended procedures for laboratory diagnosis of tuberculosis in animals [with list of literature cited; prepared by Animal Health Division]. July 1969. [1]+27 p. il. 4° †
L.C. card 72-603655
- 13541 Grasshopper survey, species field guide, Oakland, Calif., May 1969. [1]+23 p. il. 1 pl. 4° (Plant Pest Control Division.) † A 77.306/3: G 76
- 13542 Index-catalogue of medical and veterinary zoology: supp. 16, pt. 6, Parasite-subject catalogue: Subject headings and treatment; by Dorothy B. Segal [and others]. July 1969. iii+138 p. 4° (Animal Disease and Parasite Research Division.) * Paper, \$1.25. • Item 31
L.C. card 63-65031 A 77.219/2: 16/pt.6
- 13543 Index-catalogue of medical and veterinary zoology: supp. 17, pt. 4, Parasite-subject catalogue, parasites, Nematoda and Acanthocephala; by Dorothy B. Segal [and others]. July 1969. iii+269 p. 4° (Beltsville Parasitological Laboratory, Animal Disease and Parasite Research Division.) * Paper, \$2.00. • Item 31
L.C. card 63-65031 A 77.219/2: 17/pt.4
- 13544 Index-catalogue of medical and veterinary zoology: supp. 17, pt. 5, Parasite-subject catalogue: parasites: Arthropoda and miscellaneous phyla; by Dorothy B. Segal [and others]. July 1969. v+290 p. 4° (Beltsville Parasitological Laboratory, Animal Disease and Parasite Research Division.) * Paper, \$2.25. • Item 31
L.C. card 63-65031 A 77.219/2: 17/pt.5
- 13545 National tick surveillance program calendar year 1967. Apr. 15, 1968. 15 p. il. 4° (Animal Health Division.) † A 77.237/2: 967
- 13546 Northern Utilization Research and Development Division. [May 1969.] cover title, 32 p. il. [Text on p. 2 and 3 of cover.] † A 77.2: N 81/969
- 13547 Plant quarantine import requirements of France, Aug. 19, 1969. 6 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary, June 8, 1964, and TM, May 18, 1966.] † A 77.329: F 844/969

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
•Sent to Depository Libraries

Page 1

GOVERNMENT PUBLICATIONS

- 13548 Plant quarantine import requirements of French Guiana. Aug. 19, 1969. 4 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes P.Q. 646, Sept. 26, 1958.] † A 77.329: F 88
- 13549 Plant quarantine import requirements of Guadeloupe. Aug. 19, 1969. 4 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes P.Q. 650 (Guadeloupe and Martinique), Nov. 12, 1958.] † A 77.329: G 93
- 13550 Plant quarantine import requirements of Iran. Aug. 12, 1969. 2 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes P.Q. 449, Apr. 18, 1947.] † A 77.329: Ir 1
- 13551 Plant quarantine import requirements of Martinique. Aug. 19, 1969. 4 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes P.Q. 650, (Guadeloupe and Martinique) Nov. 12, 1958.] † A 77.329: M 36
- 13552 Plant quarantine import requirements of Réunion. Aug. 19, 1969. 5 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes P.Q. 640, Aug. 26, 1958.] † A 77.329: R 31
- 13553 Report of cooperative tick eradication activities, fiscal year 1968. Nov. 6, 1968. 7 p. il. 4° (Animal Health Division.) ‡ A 77.237: 968
L.C. card 63-60859
- 13554 Report of [19th] National Poultry and Turkey Improvement Plans Conference, July 15-17, 1968, Cincinnati, Ohio. [1968.] 6+11+[4] leaves, 4° (Animal Husbandry Research Division.) ‡ A 77.202: N 21/968
- 13555 Reported arthropod-borne encephalidites in horses and other equidae, calendar year, 1967; [prepared by Animal Health Division]. June 1968. 7 p. il. 4° ‡ A 77.230/2: 967
- 13556 U.S.D.A. summary of registered agricultural pesticides chemical uses: v. 2, Fungicides and nematocides. 3d edition. [Mar. 31, 1969.] [1]+x p.+205 leaves, 4° (Pesticide Regulation Division.) [Includes additions, deletions, and supplements since issuance of 2d edition July 1, 1964. Issued in looseleaf form.] * Paper, \$3.50. ● Item 44 A 77.302: P 43/4/969/v.2
L.C. card 61-60934
- 13557 Veterinary Biologies Division notice no. 9: Biological products produced [and destroyed] in licensed establishments during fiscal year 1969. Aug. 6, 1969. 6 p. 4° (Veterinary Biologies Division.) † A 77.226/3: 9

AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE, Agriculture Dept., Washington, DC 20250

- 13558 1967 annual report and statistical summary of programs administered by Massachusetts ASCS State Office. Amherst, Mass. [1969]. cover title, 19 leaves, 4° ‡ A 82.1/2: M 38/967
L.C. card 70-602006
- 13559 ASCS, Iowa program summary, 1968. [Apr. 1969.] cover title, [1]+51 p. il. 4° ([Iowa ASCS State Office, Des Moines, Iowa.]) ‡ A 82.1/2: Io 9/968
L.C. card 78-603276
- 13560 ASCS programs administered by counties, by congressional districts, 1968. [1969.] [217] p. 4° (California State Office.) ‡ A 82.1/2: C 12/968-2
L.C. card 70-603472
- 13561 Georgia, ASCS, 1968 activity summary by congressional districts. cover title, [4] p.+[41] leaves, 4° ‡ A 82.1/2: G 29/968-2
L.C. card 75-603452
- 13562 Idaho, annual activity summary [1967], 1st Congressional District. Revised Apr. 1968. [1969.] cover title, 20 p. 4° ‡ A 82.1/2: Id 1/967-2/1st dist.
- 13563 Idaho, annual activity summary [1968], 1st Congressional District. Mar. 1969. cover title, [8] leaves, 4° ‡ A 82.1/2: Id 1/968-2/1st dist.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 13564 Idaho, annual activity summary [1967], 2d Congressional District. Revised Apr. 1968. [1969.] cover title, 21 p. 4° ‡ A S2.1/2: Id 1/967-2/2d dist.
- 13565 Idaho, annual activity summary [1968], 2d Congressional District. Mar. 1969. cover title, [6] leaves, 4° ‡ A S2.1/2: Id 1/968-2/2d dist.
- 13566 Kansas, congressional district summary. 1968. [1969.] cover title, 18 p.+28 leaves, 4° ‡
L.C. card 72-603454 A S2.1/2: K 13/968-2
- 13567 Maine, 1967 program year report. [1969.] cover title, [1]+22 leaves, 4° ([Maine ASC State Committee], Orono, Maine.) ‡
L.C. card 68-62948 A S2.1/2: M 28/967
- 13568 Maine, 1968 program year report. [1969.] cover title, [1]+29 leaves, 4° ([Maine State ASC Committee], Orono, Maine.) ‡
L.C. card 68-62948 A S2.1/2: M 28/968
- 13569 Oklahoma, 1968 activity summary, 1st Congressional District, Page Belcher. [1969.] cover title, [2] leaves, 4° ‡ A S2.1/2: Ok 4/968-2/1st dist.
- 13570 Oklahoma, 1968 activity summary, 2d Congressional District, Ed Edmondson. [1969.] cover title, [6] leaves, 4° ‡ A S2.1/2: Ok 4/968-2/2d dist.
- 13571 Oklahoma, 1968 activity summary, 3d Congressional District, Carl Albert. [1969.] cover title, [6] leaves, 4° ‡ A S2.1/2: Ok 4/968-2/3d dist.
- 13572 Oklahoma, 1968 activity summary, 4th Congressional District, Tom Steed. [1969.] cover title, [4] leaves, 4° ‡ A S2.1/2: Ok 4/968-2/4th dist.
- 13573 Oklahoma, 1968 activity summary, 5th Congressional District, John Jarman. [1969.] cover title, [2] leaves, 4° ‡ A S2.1/2: Ok 4/968-2/5th dist.
- 13574 Oklahoma, 1968 activity summary, 6th Congressional District, John H. Camp. [1969.] cover title, [6] leaves, 4° ‡
A S2.1/2: Ok 4/968-2/6th dist.
- 13575 Pender-New Hanover County ASCS 1968 annual report. Burgaw, N.C. [1969.] cover title, [2]+22 leaves, il. 4° ‡
L.C. card 78-603434 A S2.1/2: P 37/968
- 13576 Pennsylvania, compilation by congressional districts of ASCS program activities for 1968. [1969.] cover title, [38] leaves, 4° ‡
L.C. card 76-603471 A S2.1/2: P 38/968-2
- 13577 South Carolina, annual congressional district summary [1968], Congressional District 1. [1969.] cover title, [5] leaves, 4° ‡
A S2.1/2: So Sc/968-2/dist.1
- 13578 South Carolina, annual congressional district summary [1968], Congressional District 2. [1969.] cover title, [5] leaves, 4° ‡
A S2.1/2: So Sc/968-2/dist.2
- 13579 South Carolina, annual congressional district summary [1968], Congressional District 3. [1969.] cover title, [5] leaves, 4° ‡
A S2.1/2: So Sc/968-2/dist.3
- 13580 South Carolina, annual congressional district summary [1968], Congressional District 4. [1969.] cover title, [4] leaves, 4° ‡
A S2.1/2: So Sc/968-2/dist.4
- 13581 South Carolina, annual congressional district summary [1968], Congressional District 5. [1969.] cover title, [5] leaves, 4° ‡
A S2.1/2: So Sc/968-2/dist.5
- 13582 South Carolina, annual congressional district summary [1968], Congressional District 6. [1969.] cover title, [5] leaves, 4° ‡
A S2.1/2: So Sc/968-2/dist.6

GOVERNMENT PUBLICATIONS

AGRICULTURE DEPARTMENT Washington, DC 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

- 13583 Directory of Agricultural Research Service; [prepared by Information Division]. [Sept. 1969.] cover title, ii+135 p. [Text on 2 p. of cover.]
* Paper, 60c. ● Item 6-A
L.C. card Agr 68-96 A 1.89/3; Ag 8/969

Farmers' bulletins. ● Item 9 A 1.9:(nos.)

- 13584 2147. Boll Weevil, how to control it; [prepared by Entomology Research Division, Agricultural Research Service]. [Revised Sept. 1969.] [1969.] 12 p. il. [Replaces all previous editions.] * Paper, 10c.
L.C. card 76-603526
- 13585 2209. Slaughtering, cutting, and processing beef on farm; [by Richard L. Hiner]. [July 1965, slightly revised Aug. 1969.] [1969.] 32 p. il. ([Animal Husbandry Research Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 1415, Beef on farm, slaughtering, cutting, curing.] * Paper, 25c.
L.C. card 78-603643
- 13586 2242. Housing and equipment for sheep; [prepared by Animal Husbandry Research Division and Agricultural Engineering Research Division, Agricultural Research Service]. [Aug. 1969.] 12 p. il. [Supersedes Farmers' bulletin 810, Equipment for farm sheep raising.] * Paper, 10c
L.C. card 75-603314

Home and garden bulletins. ● Item 11 A 1.77:(nos.)

- 13587 5. Food for family with young children; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Revised Apr. 1960, slightly revised Aug. 1969.] [1969.] 16 p. il. * Paper, 10c.
L.C. card 75-603645
- 13588 8. Home canning of fruits and vegetables; [prepared by Human Nutrition Research Division, Agricultural Research Service]. [Revised Feb. 1965, slightly revised Sept. 1969.] [1969.] 32 p. il. [Includes more information, when you preserve food at home, list of other publications of Agricultural Research Service.] * Paper 20c.
L.C. card 71-603644
- 13589 10. Home freezing of fruits and vegetables; [prepared by Human Nutrition Research Division, Agricultural Research Service]. [Revised May 1965, slightly revised Sept. 1969.] [1969.] 48 p. il. * Paper, 20c.
L.C. card 79-603453
- 13590 74. Food and your weight; [by Louise P. Page and Lillian J. Fincher]. [Nov. 1960, slightly revised Aug. 1969.] [1969.] [2]+30 p. il. ([Consumer and Food Economics Research Division, Agricultural Research Service.]) * Paper, 15c.
L.C. card 71-603451

Home economics research report.

- 13591 36. Pantothenic acid, vitamin B6, and vitamin B12 in foods [with list of literature cited]; by Martha Louise Orr. Aug. 1969. [2]+53 p. 4° (Consumer and Food Economics Research Division, Agricultural Research Service.) * Paper, 55c. ● Item 11-B
L.C. card 79-603654 A 1.87:36

Household food consumption survey 1965-66. Report.

- 13592 6. Dietary levels of households, in United States, spring 1965 [with list of literature cited; by Sadye F. Adelson and Betty Peterkin]. [July 1969.] cover title, ii+117 p. il. oblong 8° ([Consumer and Food Economic Research Division, Agricultural Research Service.]) [Includes list of selected publications from other surveys of family food consumption and dietary levels.] * Paper, \$1.00. ● Item 11-A
A 1.86:6/2

Leaflet.

- 13593 492. Common liver fluke in sheep; [prepared by Animal Disease and Parasite Research Division, Agricultural Research Service]. [Revised Sept. 1969.] [1969.] 8 p. il. * Paper, 10c. ● Item 12
A 1.35:492/2

Marketing research report.

- 13594 848. Spinning performance and yarn quality as affected by lint color and trash in field-exposed cotton, 1966-67 crop year; [by Edward H. Shanklin, Preston E. Laferney and Warren E. Garner]. [Sept. 1969.] [2]+14 p. 4° (Agricultural Research Service.) [Prepared in cooperation with Economic Research Service.] * Paper, 15c. ● Item 13-B
L.C. card 73-603528 A 1.82:848

Miscellaneous publications. ● Item 13-A A 1.38:(nos.)

- 13595 798. Scientific careers in Agricultural Research Service; [prepared by Personnel Division, Agricultural Research Service]. [Revised July 1969.] [1969.] cover title, 36 p. il. oblong 12° [Text on p. 2-4 of cover.] * Paper, 55c.
L.C. card 74-603669

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

OCTOBER 1969

- 13596 956. Engineers in Soil Conservation Service. [Feb. 1964, slightly revised July 1969.] [20] p. ll. oblong 8° †
- PA [Program aid] (series). † ● Item 14-A A 1.68:(nos.)
- 13597 399. Packers and stockyards act, what it is, how it operates. [Slightly revised Aug. 1969.] [1969.] [2]+8 p. ll. (Packers and Stockyards Administration.)
- 13598 591. Your livestock claims, Packers and stockyard act can help you recover losses. [Slightly revised July 1969.] [1969.] [2]+6 p. 4° (Packers and Stockyards Administration.)
- 13599 666. Saving the forests and related wildlife resources from insects and diseases. [Slightly revised Aug. 1969.] [1969.] 12 p. ll. oblong 24° (Forest Service.) [Supersedes PA 593, Holding the line, July 1963.]
- 13600 705. Farmers Home Administration strengthens family farms, strengthens rural communities, reduces rural poverty. [Revised Aug. 1969.] [1969.] [6] p. narrow 8° (Farmers Home Administration.)
- 13601 915. Pestina says, help stop spread of plant pests; [prepared by Plant Quarantine Division]. [July 1969.] [4] p. ll. narrow 8° (Agricultural Research Service.) [Supersedes PA-729, Don't help hitch-hiking bugs.]
- 13602 918. Traffic regulation and law enforcement on national forest development road system. [Aug. 1969.] [1]+10 p. narrow 8° (Forest Service.)
- Picture story.
- 13603 221. Camille, food help. Aug. 1969. [2] p. ll. 4° (Food and Nutrition Service.) † A 1.100:221
- Production research reports. ● Item 13-C A 1.84:(nos.)
- 13604 108. Rearing cotton insects in laboratory [with list of literature cited; by Raymond Patana]. [June 1969.] [2]+6 p. ll. 4° ([Entomology Research Division] Agricultural Research Service.) [Prepared in cooperation with University of Arizona Agricultural Experiment Station.] †
- 13605 109. Rearing cotton insect parasites in laboratory [with list of literature; by D. E. Bryan, C. G. Jackson, and Adair Stoner]. [Aug. 1969.] [2]+13 p. ll. 4° ([Cotton Insects Biological Control Investigations, Agricultural Research Service.] [Prepared in cooperation with University of Arizona Agricultural Experiment Station.] * Paper, 15c.
- 13606 1968 [progress] report on pesticides and related activities, research, education, information, regulation, control, monitoring, for assuring adequate supplies of wholesome, economic food and fiber, [and for] managing environment for long range good of man. June 1969. cover title, iv+264+[1]+A-7 p. 4° (Agriculture Department and cooperators.) † (Limited distribution), Research Program Development and Evaluation Staff, Room 331-E, Administration Bldg., USDA, Washington, DC 20250
- L.C. card 77-601662 A 1.2: P 43/3/96S
- Statistical bulletin.
- 13607 333. Livestock and meat statistics, supplement for 1968. [July 1969.] vi+161 p. 4° (Economic Research Service, Statistical Reporting Service, Consumer and Marketing Service.) * Paper, \$1.25. ● Item 15
- L.C. card Agr 58-260 A 1.34:333/supp.96S
- Technical bulletin.
- 13608 1398. Nearctic sawflies: 2, Selandriinae, adults (Hymenoptera: Tenthredinidae) [with list of literature cited]; by David R. Smith. [Sept. 1969.] iv+48 p. ll. 10 pl. (Agricultural Research Service.) * Paper, 40c. ● Item 16
- L.C. card 78-603694 A 1.36:1398
- 13609 Telephone directory, Department of Agriculture; issued by Office of Plant and Operations. Aug. 1969. cover title, 3-142 p. [Text on p. 2-4 of cover.] * Paper, 35c. A 1.89:969-2

AIR FORCE DEPARTMENT, Defense Dept. Washington, DC 20330

- Air Force manual AFM (series). † ● Item 421 D 301.7:(nos.)
- 13610 11-2. Administrative practices: Air Force manual of abbreviations; Aug. 15, 1969. [1969.] cover title, [1]+53 p. 4° [Issued with perforations. Supersedes AFM 11-2, Mar. 22, 1968.]
- 13611 72-3. See Defense Department, Defense Supply Agency manual DSAM 4130.2.
- 13612 85-1. Civil engineering, general: Resources and work force management, Change 1. Aug. 7, 1969. [174] p. 4° [Issued with perforations.]
- 13613 88-7, chap. 4. See Army Department, Technical manual 5-822-4.

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Air Force pamphlet AFP (series).

- 13614 71-4, v. 1. See Defense Department, Defense Supply Agency manual DSAM 4145.2, v. 1.
 13615 85-1. Civil engineering, general; Electrical facilities safe practices handbook, Change 1, Aug. 6, 1969. [1969.] [4] p. 12°. [Issued with perforations.] † ● Item 421-A D 301.35: 85-1/ch.1
 13616 168-1. See Armed Forces Information and Education, DoD pamphlet PA-3B
 13617 Air University abstracts of research reports, v. 12, 1968. iv+123 p. 4° (Air University Library, Maxwell Air Force Base, Ala.) † L.C. card 58-61099 D 301.26/20: 12

Air Weather Service: Technical report.

- 13618 213. 2d annual survey report on Air Weather Service weather-modification program [FY 1969]: by Herbert S. Appleman. June 1969. [1]+1+16 p. il. 4° [Issued with perforations.] † D 301.40: 213
 13619 Build-up in Korea, Fifth Air Force report. [1969.] cover title, 28 p. il. 4° † L.C. card 75-603688 D 301.2: K 84

Environmental Technical Applications Center: Technical note.

- 13620 69-6. Annotated climatological bibliography of India; by Dennis L. Boyer and Alvin L. Smith, jr. Aug. 1969. vi+55 p. 4° † D 301.40/2: 69-6
 13621 Lithograph series, set 2, southeast Asia paintings, U.S. Air Force. [1969.] 12 colored prints each 17 x 22 in. [Colored lithographs suitable for framing. Issued in envelope.] * Paper, \$2.00 per set. D 301.76: 2
 13622 Lithograph series, set 3, U.S. Air Force. [1969.] 12 colored prints each 17 x 22 in. or 22 x 17 in. [Colored lithographs suitable for framing. Issued in envelope.] * Paper, \$2.00 per set. D 301.76: 3
 13623 Lithograph series, set 4, U.S. Air Force. [1969.] 12 colored prints each 17 x 22 in. or 22 x 17 in. [Colored lithographs suitable for framing. Issued in envelope.] * Paper, \$2.00 per set. D 301.76: 4
 13624 Lithograph series, set 6, U.S. Air Force. [1969.] 12 colored prints each 17 x 2 1/2 in. or 22 x 17 in. [Colored lithographs suitable for framing. Issued in envelope.] * Paper, \$2.00 per set. D 301.76: 6
 13625 Military Airlift Command, Airlift Service management report, 20th year, July 1967-June 1968. [1969.] cover title, 32 p. il. 4° [Prepared by DCS/Comptroller Headquarters, MAC.] † D 301.56/3: 967-68

OAR (series). (Office of Aerospace Research.)

- 13626 69-0007. Air Force research resumes, 1968, Office of Aerospace Research [v. 7]. [1969.] [851] p. 4° (Office of Scientific and Technical Information.) † Paper, \$3.00. (AD 689900). ● Item 422-B L.C. card 63-61428 D 301.69/3: 69-0007

School of Aerospace Medicine: Aeromedical reviews. (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.)

- 13627 2-69. Theories of mechanism of action of inhalation anesthetics [with list of references; by] Clayton Petty. Apr. 1969. [1]+35 p. il. † D 301.26/13-4: 2-69

School of Aerospace Medicine: Technical report SAM TR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) † D 301.26/13-6: (nos.)

- 13628 68-137. Radioprotection of primates with 2-(1-decylamino) ethanethiosulfuric acid in dimethyl sulfoxide [with list of references; by] Horace E. Hamilton, George S. Melville, jr., Emmett J. Stork. Dec. 1968. cover title, iii+11+[2] p. il. 4° ([Task 775703.])
 13629 69-1. Further survey of compounds for radiation protection: by Vivian Plzak, John Doull. Feb. 1969. cover title, v+82+[2] p. 4° ([Contract 41 (609)-2977, task 775703.])
 13630 69-17. Trends in aircrew attitudes and job satisfaction: 2-year study [with list of references; by] George K. Cantrell. Apr. 1969. cover title, iii+18+[2] p. 4° ([Task 775504.])
 13631 69-21. Effects of pH, CO₂, and buffering systems on lactic acid production in rat liver slices [with list of references; by] William G. Soucie. Apr. 1969. cover title, iii+5+[2] p. il. 4° ([Task 775801.])
 13632 69-24. Modified ⁵⁹Fe ferrokinetic procedure [with list of references; by] Donald P. Logsdon, jr., James F. Green, John W. Harper. Apr. 1969. cover title, iii+4+[2] p. il. 4° ([Task 775502.])
 13633 69-33. Battery life and moisture penetration of subdermally implanted devices [with list of references; by] Henry Buchanan, Willis F. Moore, Calvin R. Richter. June 1969. cover title, iii+10+[2] p. il. 4° ([Task 632002.]) [Correction sheet, 1 p. oblong 24° was issued also.]

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Special reports. (Office of Aerospace Research, Air Force Cambridge Research Laboratories, L. G. Hanscom Field, Bedford, Mass.) ‡

D 301.45/42:(nos.)

- 13634 74. Bibliography of AFCRL publications from Oct. 1 to Dec. 1967. Apr. 1968. vii+64+[2] p. 4° (AFCRL-68-0193.)
 13635 76. Bibliography of AFCRL publications from Jan. 1 to Mar. 31, 1968. Apr. 1968. vii+68+[2] p. 4° (AFCRL-68-0230.)

USAF historical studies. (USAF Historical Division, Aerospace Studies Institute.) ‡

D 301.26/19:(nos.)

- 13636 160. Development of German Air Force, 1919-39: by Richard Suchenwirth; edited by Harry R. Fletcher. June 1968. cover title, xxii+259 p. il. 4° L.C. card 79-603697
 13637 174. Command and leadership in German Air Force; by Richard Suchenwirth, edited by Harry R. Fletcher. July 1969. cover title, xix+351 p. il. 4° L.C. card 75-603696
 13638 Weighted airman promotion system. [1969.] 18+[2] p. il. 32° [Information subject to change.] ‡ ● Item 424 D 301.2: W 42

AIR TRAFFIC SERVICE, Transportation Dept. Washington, DC 20553

- 13639 Air traffic training. Oct. 1, 1969. cover title, [1]+ii+38+[6] p. il. 4° (3120.4A.) [Issued with perforations. Effective date Oct. 1, 1969. Cancels Air traffic training handbook 3120.4, Feb. 15, 1967, Notice N 3120.12, May 12, 1969, and various orders.] ‡ ● Item 431-D-1
 TD 4.308: Ai 7
 13640 Index of standard instrument approach procedures. July 31, 1969. cover title, [1]+137 p. 4° (Flight Services Division.) ‡ TD 4.312: 969
 13641 International weather schedules service O, Change 7. [May 29, 1969.] [58] p. map, 4° (7330.6 CHG 7.) [Issued in looseleaf form. Cancellation date Jan. 1, 1970.] ‡ ● Item 431-D-1
 FAA 3.8: W 27/2/966/ch.7
 13642 Special military operations handbook, Change 2. [July 3, 1969.] [63] p. 4° (7610.4A CHG 2.) [Effective Nov. 1, 1969. Cancellation date Jan. 1, 1970. Issued in looseleaf form.] ‡ ● Item 431-D-1
 TD 4.308: M 59/ch.2
 13643 Terminal air traffic control handbook, Change 9. [July 3, 1969.] [92] p. il. 4° (7110.8 CHG. 9.) [Effective Oct. 1, 1969. Cancellation date Jan. 1, 1970. Issued in looseleaf form.] ‡ ● Item 431-D-1
 TD 4.308: T 27/ch.9

AIRCRAFT DEVELOPMENT SERVICE, Transportation Dept. Washington, DC 20553

NOTE.—The Aircraft Development Service was established by the Administrator of Federal Aviation Administration in July 1962, with the mission to seek solutions to "hard core" aviation safety problems.

- 13644 Experiments with icephobic surfaces; by George C. Hay [1969.] [25] p. 4° [Presented to FAA symposium on aircraft ice protection, Apr. 30, 1969. FAA Washington headquarters.] ‡ TD 4.602: Ic 2
 13645 Operational evaluation of STOL aircraft and related STOL developments [paper] by J. Clay Staples, Program Manager, Aircraft Division, Aircraft Development Service, Federal Aviation Administration, Washington, D.C., presented to 3d annual R&D report to industry, June 17, 1969. [1969.] [1]+6 p. 4° ‡ TD 4.610: St 2
 Report FAA DS (series).
 13646 68-15. Study to determine flight profile and mission of certificated private pilot. final report; prepared by J. J. Eggspuehler, G. S. Weislogel et al. July 1968. vi+82+[2] p. il. 4° ([Contract FA67WA-1760]; project 560-004-05H.) ‡ TD 4.611: 68-15
 13647 Runway traction [paper] by R. C. McGuire, Program Manager, Airframe Aircraft Development Service, Federal Aviation Administration, Washington, D.C., presented to 3d annual R&D report to industry, June 17, 1969. [1969.] [1] p.+4 leaves, 4° ‡ TD 4.610: M 17

GOVERNMENT PUBLICATIONS

AIRPORTS SERVICE, Transportation Dept. Washington, DC 20553

- 13648 Opportunities for development of national airport system; by Chester G. Bowers. [1969.] 19 p. il. 4° [Presented at American Society of Civil Engineers national meeting on transportation engineering, Washington, D.C., July 22, 1969.] ‡ TD 4.102: Op 5
- 13649 Staff study, 1980 metropolitan area airport capacity analysis, location—Atlanta, Ga.; prepared by Louis N. Million. [June 19, 1969.] [1]+ii+[4]+18 p. il. 4° [Issued with perforations.] ‡ TD 4.102: M 56

APPALACHIAN REGIONAL COMMISSION 1666 Connecticut Avenue, NW, Washington, DC 20009

Appalachian research report.

- 13650 S. Preliminary analysis for development of central Appalachia, Kentucky, Tennessee, Virginia, West Virginia. [1969.] [137] p. il. 4° ‡
Y 3.Ap 4/2: 10/8

ARMED FORCES INFORMATION SERVICE, Defense Dept. Washington, DC 20301

DoD [pamphlet].

- 13651 PA-3B. Uniformed services health benefits program. Revised [edition]. [May 1969.] [4]+39 p. il. narrow 12° ([Army Dept.] DA Pam 360-505; [Navy Dept.] NAVPERS 15203B; [Air Force] AFP 168-1; [Marine Corps] NAVMC 2601; [Coast Guard] CG-144; [Public Health Service] PHS-CCPM Pam-16; [Environmental Science Services Administration] ESSA CO-3.) [Supersedes DoD PA-3a/DA PAM 360-505/NAVPERS 15203A/CG-144/PHS-CCPM Pam-16/ESSA CO-3/AFP 168-1 and NAVMC 2601, June 23, 1967.] ‡ ● Item 312-A
D 2.14: PA-3 B

ARMY DEPARTMENT, Defense Dept. Washington, DC 20310

AMC pamphlet. (Army Material Command.)

- 13652 335-1. Reports, register of approved recurring reports. July 1969. cover title, iv+192 p. 4° [Quarterly. Issued with perforations. Supersedes AMCP 335-1, Jan. 31, 1969.] ‡ ● Item 322-A
L.C. card 67-60397 D 101.22/3: 335-1/16

Cold Regions Research & Engineering Laboratory, Hanover, N.H.: [Technical] report. (Army Materiel Command.)

- 13653 218. Shock tube experiments on snow [with list of literature cited]; by James L. Smith. June 1969. iv+16 [2] p. il. 4° (DA task, 1T-062112A13001, Terrestrial Sciences Center.) ‡ D 103.33: 218

Field manual FM (series). ‡ ● Item 324 D 101.20:(nos.)

- 13654 17-1. Armor operations; Change 1. Aug. 15, 1969. 73 p. il. 4° [Issued with perforations.]
- 13655 31-70. Basic cold weather manual, Change 1. Dec. 17, 1968. 2 p. 4° [Issued with perforations.]
- 13656 55-10. Army transportation movements management [with list of references]. June 1969. cover title, [181] p. il. 4° [Issued with perforations. Supersedes FM 55-4, Dec. 22, 1959; FM 55-4-1 (Test), Apr. 21, 1967; and FM 55-10, June 7, 1965.]

Natick Laboratories, Natick, Mass.: Technical reports. (Army Materiel Command.)

- 13657 69-28-ES. Environmental conditions relating to harmful insects of mainland southeast Asia [with selected bibliography]; by Edgar Bingham. Oct. 1968. vi+44+[20] p. il. 4° (Earth Sciences Laboratory, ES-40; project references 1T-062109A129.) ‡
D 106.21: 69-28-ES

Pamphlets. ● Item 327 (Rev. 1969) D 101.22:(nos.)

- 13658 135-2. Briefing on reemployment rights of members of Army National Guard and Army Reserve. Apr. 1969. cover title, 9 p. 4° [Corrected copy. Issued with perforations. Supersedes DA pamphlet 135-2, Oct. 6, 1967.] ‡

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

OCTOBER 1969

- 13659 360-303. Officers' call: The challenge of leadership. May 27, 1969. cover title, 14+[2] p. il. 4° [Text on p. 2-3 of cover. Supersedes DA Pam 355-26, 1961.] ‡
- 13660 550-7. Latin America and the Caribbean, analytical survey of literature, 1969 edition, Feb. 1969. cover title, viii+319 p. il. 38 maps, 5 are in pocket, 2 tab. 4° [Some maps are colored.] * Paper, \$8.25. L.C. card 76-603569

Technical manual TM (series). ‡ ● Item 329 D 101.11: (nos.)

- 13661 5-822-4. Soil stabilization for roads and streets. June 1969. cover title, 18+[1] p. il. 4° (Department of Air Force manual AFM 88-7, chap. 4.) [Issued in looseleaf form. Supersedes TM 5-822-4, July 31, 1961, formerly designated as Corps of Engineers, Engineer manual EM 1110-345-304, and AFM 88-7, chap. 4, July 31, 1961.]
- 13662 5-823-3. Army airfield and heliport rigid and overlay pavement design, Oct. 10, 1968, Change 1. Aug. 20, 1969. [1]+10+1-3 p. 4° [Issued with perforations.]
- 13663 10-280. Field laundry, bath, and clothing exchange operations, Change 1. Aug. 6, 1968, 2 p. 4° [Issued with perforations.]

Technical research notes. (Behavioral Science Research Laboratory.)

D 101.60: (nos.)

- 13664 201. Team interpretation procedures, selection of teammates and role assignment; [by] George W. Doten and Robert Sadacca. Jan. 1969. [8]+27 p. 4° (U.S. Army Behavioral Science Research Laboratory, Army project 20662704A721, contract DA 49-092-ARO-65, Component integration work unit.) ‡ Paper, \$3.00 (AD 688140).
- 13665 203. Factorially derived information measures for differential prediction of officer performance; [by] William H. Helme. Dec. 1968. [8]+20 p. 4° (Behavioral Evaluation Research Division, Army project 2J06216A722, Office prediction d-41.) ‡ Paper, \$3.00 (AD 686288).
- 13666 206. Effect of disparity in photo scale and orientation on change detection; [by] C. L. Klingberg, C. L. Elworth, and Abraham H. Birnbaum. Jan. 1969. [8]+36 p. il. 4° (Army project 20662704A721, contract DA-49-092 ARO-92, Interpreter techniques a-51.) ‡ Paper, \$3.00 (AD688967).
- 13667 207. Effects of spectrum sampling on speech intelligibility [with list of literature cited; by] Anthony E. Castelnovo. Mar. 1969. [8]+19 p. il. 4° (Combat Systems Research Division; Army project 20662106A723, Monitor performance-c.) ‡ Paper, \$3.00.

Technical research report. (Behavioral Science Research Laboratory.)

- 13668 1156. Implications of BESRL [Behavioral Science Research Laboratory] research for displays in tactical information processing [with bibliographies; by] James M. McKendry, Douglas J. Mace and James D. Baker. Jan. 1969. [8]+28 p. 4° (Support Systems Research Division; Army project 20662106A723, contract DA 11C 19-68-C-0006, Tactical information processing b-11.) ‡ Paper, \$3.00 (AD 688581).

D 101.60/2: 1156

USAAVLABS technical report. (Army Aviation Materiel Laboratories, Fort Eustis, Va.) ‡ D 117.8/2: (nos.)

- 13669 68-49D. Investigation of dynamic stability characteristics of quad configuration, ducted propeller V/STOL model: v. 4, Longitudinal stability characteristics of quad configuration, ducted-propeller V/STOL model at high duct incidence [with list of references]; by Howard C. Curtiss, jr. May 1969. cover title, [1]+xvii+82+[2] p. il. 4° (Contract DAAJ02-67-C-0025; Department of Aerospace and Mechanical Sciences, Princeton University, Princeton, N.J.)
- 13670 68-73. Effect of test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells in axial compression [with list of literature cited]; by W. H. Horton [and others]. Mar. 1969. cover title, [1]+ix+48+[2] p. il. 4° (Contract DA 44-177-AMC-258(T); Stanford University, Stanford, Calif.) [Errata, 1 p., issued also.]
- 13671 68-74. Capacitive measurement system for nondestructive testing of fiber glass reinforced plastic laminates; by Strether Smith. Jan. 1969. cover title, [1]+viii+24+[2] p. il. 4° (Contract DA 44-177-AMC-115(T); Department of Aeronautics and Astronautics, Stanford University, Stanford, Calif.) [Errata, 1 p., issued also.]
- 13672 68-75. Thermal ram, new concept for load application [with list of references]; by W. H. Horton, S. C. Bailey, Strether Smith, Jan. 1969. cover title, [1]+vi+24+[2] p. il. 4° (Contract DA 44-177-AMC-115(T); Department of Aeronautics and Astronautics, Stanford University, Stanford, Calif.) [Errata, 1 p., issued also.]
- 13673 68-76. Use of small and large displacement data from essentially elastic buckling tests on columns and plates as means of correlating theory and experiment [with list of literature cited]; by W. H. Horton, D. J. Tenerelli, B. T. Wiley. Mar. 1969. cover title, [1]+ix+37+[2] p. il. 4° (Contract DA 44-177-AMC-258(T), Stanford University, Stanford, Calif.) [Errata, 1 p., issued also.]

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 9

GOVERNMENT PUBLICATIONS

USAAVLABS technical report—Continued

- 13674 68-77. Applicability of Southwell plot to interpretation of test data from instability studies of shell bodies [with list of references cited]; by W. H. Horton, P. L. Cundari. Mar. 1969. (Contract DA 44-177-AMC-258(T); Stanford University, Stanford, Calif.) [Errata, 1 p. issued also.]
- 13675 68-90c. Single-stage axial compressor component development for small gas turbines, v. 3, Supersonic compressor stage development by Charles H. Muller, Leslie R. Cox. June 1969. cover title, [1]+xvi+111+[2] p. il. 4°. (Contract DA 44-177-AMC-392(T); Curtiss-Wright Corporation, Wood-Ridge, N.J.) [Errata, 1 p. issued also.]
- 13676 69-7. Aerodynamic and aeroelastic characteristics of full-scale rotor blade stopped in flight [with list of references]; by Richard P. White, jr. Apr. 1969. cover title, [1]+xiv+126+[2] p. il. 4°. (Contract DA 44-177-AMC-366(T); Cornell Aeronautical Laboratory, Inc., Buffalo, N.Y.) [Errata, 1 p. issued also.]
- 13677 69-13. Review of preliminary evaluation of lifting horizontal-axis rotating-wing aeronautical systems (HARWAS) [with bibliographical listing]; by W. F. Foshag, G. D. Boshler, Mar. 1969. cover title, [1]+xxiv+396+[2] p. il. 4°. (Contract DAAJ02-67-C-0046, Aerophysics Company, Washington, D.C.) [Erratum, 1 p. issued also.]
- 13678 U.S. Army register: v. 1, Regular Army active list, Jan. 1, 1969, 1969. xiii+[3]+468 p. 4°. [Also issued as H. doc. 25, pt. 1, 91st Cong., 1st sess.] * Paper, \$4.25. ● Item 332
L.C. card 4-18250 D 102.9: 969/v.1
- 13679 — v. 2, Army NGUS, USAR, and other active lists, Jan. 1, 1969, 1969. xiii+[4]+1259 p. 4°. [Also issued as H. doc. 25, pt. 2, 91st Cong., 1st sess.] * Paper, \$9.50. ● Item 332
L.C. card 4-18250 D 102.9: 969/v.2
- 13680 — v. 3, Retired lists, Jan. 1, 1969, 1969. vi+[5]+398 p. 4°. [Also issued as H. doc. 25, pt. 3, 91st Cong., 1st sess.] * Paper, \$3.50. ● Item 332
L.C. card 4-18250 D 102.9: 969/v.3
- 13681 — v. 4, Officers' honorary retired list, Jan. 1, 1969. [1969.] [2]+8 p. [Also issued as H. doc. 25, pt. 4, 91st Cong., 1st sess.] * Paper, 10c ● Item 332
L.C. card 4-18250 D 102.9: 969/v.4
- 13682 Where the leaders are. [June 1969.] [20] p. il. narrow 8° ([RPI 699-B].) † ● Item 325 D 101.2: L 46/969
- 13683 Your military obligation. Apr. 1969. [2] p. oblong 8° † ● Item 325 D 101.2: M 59/3

ATOMIC ENERGY COMMISSION Washington, DC 20545

- 13684 AEC news release index, Jan.-June 1969; prepared by Division of Technical Information Extension. July 1969. [3]+8 p. 4° † U.S. Atomic Energy Commission, Division of Public Information, Washington, DC 20545
L.C. card 59-62302 Y 3.At 7: 44 N 47/960
- AEC research and development reports. Y 3.At 7: 22/(letters-nos.)
- 13685 AEC-tr-7013. Radiobiology, v. 8, no. 6, 1968 [articles with bibliographies]. [May 1969.] cover title, [1]+a-d+232 p. il 4°. (Division of Technical Information.) [Translation of publication of Academy of Sciences, USSR.] † Paper, \$3.00
- 13686 CEND-337 (v. 1). 1000 MWe LMFBR liquid metal fast breeder reactor follow-up study: Combustion Engineering, task 2 and 3 report. Reference conceptual design of 1000 MWe LMFBR, v. 1, Conceptual system design descriptions [with lists of references]. [1969.] cover title, [2]+xi+105 p. 22 p. of pl. 4°. (Division of Technical Information.) [Prepared for Argonne National Laboratory; contract 31-109-38-1999, Nuclear Power Department, Combustion Engineering, Inc., Windsor, Conn.] † Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 13687 CEND-337 (v. 2). 1000 MWe LMFBFR liquid metal fast breeder reactor follow-up study: Combustion Engineering, task 2 and 3 report, Reference conceptual design of 1000 MWe LMFBFR, v. 2, Static design and performance analyses [with list of references]. [1969.] cover title, [1]+viii+107+[4] p. 37 pl. 4° (Division of Technical Information.) [Prepared for Argonne National Laboratory; contract 31-109-38-1999, Nuclear Power Department Combustion Engineering, Inc., Windsor, Conn.] Φ Paper, \$3.00.
- 13688 CEND-337 (v. 3). 1000 MWe LMFBFR liquid metal fast breeder reactor follow-on study: Combustion Engineering, task 2 and 3 report, Reference conceptual design of 1000 MWe LMFBFR, v. 3, Safety and control analyses [with list of references]. [Sept. 1968.] cover title, [212] p. 11. 4° (Division of Technical Information.) [Prepared for Argonne National Laboratory; contract 31-109-38-1999.] Φ Paper, \$3.00.
- 13689 CEND-346. 1000 MWe LMFBFR liquid metal fast breeder reactor follow-on study: Combustion Engineering, task 4 report, Research and development program needed for C-E reference concept [with lists of references]. [Feb. 1969.] cover title, vi+200 p. 11. 4° (Division of Technical Information.) [Prepared for Argonne National Laboratory; contract 31-109-38-1999.] Φ Paper, \$3.00.
- 13690 CONF-670846. Conference on special topics on nuclear education, and research held in Gatlinburg, Tenn., Aug. 28-30, 1967 [with lists of references]. [Apr. 1969.] cover title, iii+284 p. 11. 4° Φ Paper, \$3.00.
- 13691 GEAP-5769. 1000 MWe LMFBFR liquid metal fast breeder reactor follow-on study: General Electric, task 4 report, Research and development requirements for 1000 MWe sodium-cooled fast reactor [with list of references]. [Apr. 1969.] cover title, [231] p. 11. 4° (Division of Technical Information.) [Prepared for Argonne National Laboratory; contract 31-109-38-1997.] Φ Paper, \$3.00.
- 13692 HASL-205. Experimental and theoretical studies of transport of gamma rays through slab shields [with list of references; by Burton G. Bennett, Gail deP. Burke, and Harold L. Beck]. Jan. 1969. cover title, vi+46 p. 11. 4° (Division of Technical Information; Health and Safety Laboratory, AEC, New York Operations Office, New York, N.Y.) Φ Paper, \$3.00.
- 13693 HASL-206. Feasibility study of using LiF detectors in neutron flux integrator [with list of references; by Arthur S. Lazanoff, James E. McLaughlin]. Mar. 1969. cover title, iv+28 p. 11. 4° (Health and Safety Laboratory, AEC, New York Operations Office, New York, N.Y.) Φ Paper, \$3.00.
- 13694 HASL-210. Health and Safety Laboratory fallout program, quarterly summary report [Mar. 1-June 1, 1969; prepared by Edward P. Hardy, jr., Joseph Rivera]. July 1, 1969. cover title [234] p. 11. 4° (Environmental Studies Division, New York Operations Office.) [Includes list of recent publications related to radionuclide studies.] Φ Paper, \$3.00. L.C. card 68-62525
- 13695 HASL-210, app. Health and Safety Laboratory fallout program, quarterly summary report [Mar. 1-June 1, 1969], appendix. July 1, 1969. cover title [385] p. 11. Φ Paper, \$3.00. L.C. card 68-62525
- 13696 IDO-12069. Injection of gas into lithosphere at National Reactor Testing Station, Idaho Falls, Idaho [with list of references; compiled by Bruce L. Schmalz]. June 1969. cover title, xii+166 p. 11. 4° ([Environmental Branch, Health Services Laboratory], Idaho Operations Office.) Φ Paper, \$3.00.
- 13697 JLI-3506-41. Basic development and applications of bubble chambers for low level counting, final report [with list of references; prepared by C. P. Petroff, W. S. Koski, and J. R. Waters]. Jan. 31, 1969. cover title, vii+104 p. 11. 4° (Johnson Laboratories, Incorporated, Cockeysville, Md.; [AEC contract AT(30-1)-3506.]) Φ Paper, \$3.00.
- 13698 NBL-247. Annual progress report for period July 1967-June 1968 [with lists of references]; Apr. 1969. cover title, vii+78 p. 11. 4° (New Brunswick Laboratory, New Brunswick, N.J.) Φ Paper, \$3.00.

GOVERNMENT PUBLICATIONS

AEC research and development reports—Continued

- 13699 NVO-40 (rev. 2). Technical discussions of onsite safety programs for underground nuclear detonations [with bibliographies; prepared by Administrative Publications Section, Reynolds Electrical & Engineering Co., Inc.]. May 1969. cover title, v+311 p. il. 4° (Nevada Operations Office.) Φ Paper, \$3.00.
- 13700 NYO-2740-6. Annual report on research project [Radiation physics, biophysics, and radiation biology], Jan. 1, 1969 [with bibliographies]. Apr. 1969. cover title, 379 p. il. 4° (Radiological Research Laboratory, Columbia University, New York, N.Y.) Φ Paper, \$3.00.
- 13701 NYO-3740-2. Portable cesium irradiator operational reports 1 and 2; [prepared by Carl B. Wootten, W. B. Grant]. Mar. 1968. [39] p. il. 4° (Division of Technical Information.) [Isotopes, Inc., Westwood, N.J.] Φ Paper, \$3.00.
- 13702 NYO-3740-3. Atomic Energy Commission mobile cesium irradiator visit to Washington State, Oct. 1967-Mar. 1968; [Prepared by Office of Nuclear Energy Development, Department of Commerce & Economic Development, State of Washington, for Division of Isotopes Development.] [Apr. 1968.] cover title, [5]+156 p. il. ([Contract AT (30-1)-3740.]) Φ Paper, \$3.00.
- 13703 NYO-3864-1. Development of radioactive pebble bed chemical reactor system, phase 2 report [with list of references; prepared by J. Y. Yang, H. T. Cullinan [and; C. C. Thomas, jr.]. Feb. 14, 1969. cover title, v+64 p. il. 4° (Division of Technical Information; Western New York Nuclear Research Center, Incorporated, Buffalo, N.Y.) Φ Paper, \$3.00.
- 13704 PNE-322. Plowshare, civil, industrial and scientific uses for nuclear explosives: [Project] Buggy, preshot geologic and engineering properties investigations [with list of references]; by R. J. Lutton, R. W. Hunt, R. E. Rowland. Apr. 1969. cover title, 103 p. il. 4° (Army Engineer Waterways Experiment Station, Corps of Engineers, Vicksburg, Miss.) [Prepared for Army Engineer Nuclear Cratering Group, Livermore, Calif.] Φ Paper, \$3.00.
- 13705 PNE-611. Plowshare, peaceful uses for nuclear explosives, Project Dugout, Nevada test site, June 24, 1964: Seismic interference & reciprocity for HE row charge, final report [with list of references; by P. C. Loux and J. R. Murphy]. June 27, 1969. cover title, [40] p. il. 4° (Environmental Research Corporation, Alexandria, Va; [contract AT (29-2)-1163.]) Φ Paper, \$3.00.
- 13706 PNE-806F. Plowshare, civil, industrial and scientific uses for nuclear explosives, Project Handcar, Nevada test site, Nov. 5, 1964: Analysis of data on ground motion and containment [with list of references]. May 12, 1969. cover title [56] p. il. 4° (Environmental Research Corporation, Alexandria, Va.; [contract AT(29-2)-1163.]) Φ Paper, \$3.00.
- 13707 PNE-956. Plowshare, civil, industrial and scientific uses for nuclear explosives: Cabriole, ecological and environmental effects from local fallout from Cabriole; 1. Radiation doses and short-term effects on vegetation from close-in fallout [with list of references; by William A. Rhoads and others]. June 25, 1969. cover title, viii+65 p. il. 4° ([Project CEP-67.3]; EG&G, Inc., Goleta, Calif.) Φ Paper, \$3.00.
- 13708 PNE-5004F. Plowshare, U.S. Army Corps of Engineers, civil, industrial and scientific uses for nuclear explosives: Construction techniques and costs for underground emplacement of nuclear explosives [with bibliography]; by J. L. Hair. Apr. 1969. [297] p. il. 4° [Prepared for U.S. Army Engineer, Nuclear Cratering Group, Livermore, Calif.] Φ Paper, \$3.00.
- 13709 RME-150. Preliminary reconnaissance for uranium in Arkansas, Illinois, Kentucky, Michigan, Minnesota, Missouri, Ohio, and Wisconsin, 1952-56. Aug. 1968. cover title, 89 p. il. 4° (Division of Raw Materials, Atomic Energy Commission and Geological Survey.) [Page 89, last page of text, printed on p. 3 of cover.] Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 13710 RME-151. Preliminary reconnaissance for uranium in Kansas, Nebraska, and Oklahoma, 1951-56. Aug. 1968. cover title, 73 p. il. 4° (Grand Junction Office, Atomic Energy Commission, Grand Junction, Colo., and Geological Survey, Washington, D.C.) [Page 73, last page of text, printed on p. 3 of cover.] Φ Paper, \$3.00.
- 13711 RME-4103. Preliminary reconnaissance for uranium in Maryland and Pennsylvania, 1953-57. Aug. 1968. cover title, 80 p. 4° (Division of Raw Materials, Atomic Energy Commission and Geological Survey.) Φ Paper, \$3.00.
- 13712 RME-4104. Preliminary reconnaissance for uranium in Alabama, Georgia, Mississippi, Tennessee, Virginia, and West Virginia, 1950-55. Aug. 1968. cover title, 77 p. 4° (Geological Survey.) Φ Paper, \$3.00.
- 13713 RME-4105. Preliminary reconnaissance for uranium in North and South Carolina, 1953-1956. Aug. 1968. cover title, 72 p. il. 4° (Division of Raw Materials, Atomic Energy Commission, and Geological Survey.) Φ Paper, \$3.00.
- 13714 TID-85 (7th rev.). Report number series used by Division of Technical Information in cataloging reports; [compiled by Helen W. White]. 7th revised edition Sept. 1969. [1969.] cover title, [5]+169 p. 4° [Supersedes all previous revisions including TID-85 (2d rev. supp.).] Φ Paper, \$3.00.
- 13715 TID-3525 (rev. 5, suppl. 4). Reactor safety, literature search; [compiled by Henry D. Raleigh]. [May 1969.] cover title, vi+68+85 p. 4° (Division of Technical Information Extension, Oak Ridge, Tenn.) Φ Paper, \$3.00.
- 13716 TID 8200 (20th rev.). Nuclear reactors built, being built, or planned in United States as of June 30, 1969; prepared by Office of Assistant General Manager for Reactors. [1969.] cover title, 34 p. 4° Φ Paper, \$3.00.
- 13717 TID-24923. Radiation-induced polymerization and copolymerization of unusual monomers [with list of references; prepared by V. T. Stannett, and others]. Jan. 8, 1968. cover title, ix+145 p. il. 4° (Division of Technical Information; Camille Dreyfus Laboratory, Research Triangle Institute, Durham, N.C.) Φ Paper, \$3.00.
- 13718 TID-25021. Summary of current seismic design practice for nuclear reactor facilities [with lists of references; by] John A. Blume and Associates, Engineers, San Francisco, Calif. Sept. 1967. viii+142 p. il. 4° (Division of Technical Information.) Φ Paper, \$3.00.
- 13719 TDI-25085. Control and reduction of oil mists from mechanical vacuum pumps, glovebox fire safety application [with bibliography; by R. D. Edwards, P. E. Johnson, and C. Yao.]. 1969. cover title, [1]+v+12+[17] p. il. 4° [Prepared by Factory Mutual Corporation.] * Paper, 45c. \bullet Item 1051-C
- 13720 TID-[25086]. Evaluation of improved fire resistant glove materials for gloveboxes, glovebox fire safety application [with bibliography]; [by P. E. Johnson]. 1969. cover title, [1]+v+5+[2] p. il. 4° [Prepared by Factory Mutual Research Corporation. TID number incorrectly given as TID-25085.] * Paper, 25c. \bullet Item 1051-C
- 13721 UNC-5236. Performance evaluation of heat exchangers for sodium-cooled reactors, final status report [with list of references; by K. Goldman, S. L. Israel, D. J. Nolan]. June 1969. cover title, ix+303 p. il. 4° (Research and Engineering Center, United Nuclear Corporation, Elmsford, N.Y.) Φ Paper, \$3.00.
- 13722 Radiation protection, past, present, and future, remarks by James T. Ramey, Commissioner, Atomic Energy Commission, at conference on universities, national laboratories, and man's environment, Chicago, Ill., July 28, 1969. [with list of references]. 1969. [28] leaves. 4° (S-25-69.) \dagger Y3.At 7:34 R 14/22
- 13723 Science, technology and the citizen, remarks by Glenn T. Seaborg, Chairman, Atomic Energy Commission, at Nobel symposium on the place of values in a world of facts, Stockholm, Sweden, Sept. 17, 1969. 1969. 16 leaves. 4° (S-26-69.) \dagger Y3.At 7:34 Se 1/181
- 13724 Telephone directory, Atomic Energy Commission. Aug. 1969. cover title, vi+82 p. [Text on p. 2-4 of cover.] * Paper, 75c. Y3.At 7:55/969-2

GOVERNMENT PUBLICATIONS

- 13725 Understanding nuclear power [with list of references], remarks by James T. Ramey, Commissioner, Atomic Energy Commission, at Conference on Nuclear Power, Burlington, Vt., Sept. 11, 1969. Sept. 15, 1969. [1]+13 leaves, 4° (S-28-69.) † Y 3.At 7: 34 R 14/23

BUSINESS AND DEFENSE SERVICES ADMINISTRATION, Commerce Dept., Washington, DC 20230

- 13726 Foreign regulations affecting U.S. textile/apparel exports. Sept. 15, 1968. [4]+102+9 p. 4° (Office of Textiles.) ‡ C 41.2: T 31/5
L.C. card 74-603650
- 13727 Franchise company data for equal opportunity in business; [compiled by Sharon K. Gibson]. July 1969. xxi+147 p. 4° [Includes list of sources of franchising information.] ‡ ● Item 215
L.C. card 67-60961 C 41.2: F 84/969
- 13728 Major government sources and statistics for marketing research, address by Jacob Epstein Katz, Director, Office of Marketing, Business and Defense Services Administration, Department of Commerce, prepared for delivery at Marketing Conference of American Marketing Association, Denver, Colo., May 13, 1969. 1969. 12 p. 4° ‡ C 41.15: K 15/9
- 13729 Patterns of industrial growth: Shipments of fluorescent lamp ballasts, 1958-68. Aug. 1969. 3 p. 4° † Paper, 10c. C 41.90/5: B 21/958-68
- 13730 ——— Shipments of mining machinery and equipment, 1961-68. June 1969. 3 p. 4° † Paper, 10c. C 41.90/5: M 66/961-68
- 13731 U.S. imports of scientific, industrial, and technical instruments, 1958-67; [prepared by Fred E. Crosley, jr.]. July 1968. 4 p. ‡ C 41.2: In 7/2/958-66/supp.

CENSUS BUREAU, Commerce Dept. Suitland, MD 20233

- 13732 About census '70. [1969.] 4 p. † C 3.2: C 33/23
1967 census of business: Retail trade [area statistics] BC67-RA (series). [Preprint from v. 2, Retail trade, area statistics.] C 3.202/2: 967/(nos.)
- 13733 5. Arkansas. [Aug. 1969.] iv+54 p. il. 4° * Paper, 65c. ● Item 132-A-5
13734 9. Delaware. [Aug. 1969.] iv+34 p. il. 4° * Paper, 50c. ● Item 132-A-9
13735 11. Florida. [Sept. 1969.] iv+98 p. il. 4° * Paper, \$1.00. ● Item 132-A-11
13736 15. Illinois. [Aug. 1969.] iv+108+[2] p. il. 4° * Paper, \$1.25. ● Item 132-A-16
- 13737 16. Indiana. [Aug. 1969.] iv+90 p. il. 4° * Paper, \$1.00. ● Item 132-A-17
13738 17. Iowa. [Aug. 1969.] iv+58 p. il. 4° * Paper, 70c. ● Item 132-A-18
13739 18. Kansas. [Aug. 1969.] iv+54 p. il. 4° * Paper, 60c. ● Item 132-A-19
13740 19. Kentucky. [Aug. 1969.] iv+60+[1] p. il. 4° * Paper, 70c. ● Item 132-A-20
- 13741 24. Michigan. [Aug. 1969.] iv+96+[1] p. il. 4° * Paper, \$1.00. ● Item 132-A-25
- 13742 25. Minnesota. [Sept. 1969.] iv+58 p. il. 4° * Paper, 65c. ● Item 132-A-26
13743 29. Nebraska. [Aug. 1969.] iv+42 p. il. 4° * Paper, 55c. ● Item 132-A-30
13744 32. New Jersey. [Aug. 1969.] iv+100 p. il. 4° * Paper, \$1.00. ● Item 132-A-33
- 13745 34. New York. [Aug. 1969.] iv+144 p. il. 4° * Paper, \$1.50. ● Item 132-A-35
13746 35. North Carolina. [Aug. 1969.] iv+90 p. il. 4° * Paper, \$1.00. ● Item 132-A-36
- 13747 37. Ohio. [Sept. 1969.] iv+138 p. il. 4° * Paper, \$1.25. ● Item 132-A-38
13748 38. Oklahoma. [Aug. 1969.] iv+62 p. il. 4° * Paper, 65c. ● Item 132-A-39
13749 40. Pennsylvania. [Sept. 1969.] iv+132+[1] p. il. 4° * Paper, \$1.25. ● Item 132-A-41
- 13750 44. Tennessee. [Aug. 1969.] iv+64+[1] p. il. 4° * Paper, 65c. ● Item 132-A-45
- 13751 45. Texas. [Aug. 1969.] iv+148+[1] p. il. 4° * Paper, \$1.50. ● Item 132-A-46
- 13752 50. West Virginia. [Aug. 1969.] iv+52 p. il. 4° * Paper, 65c. ● Item 132-A-52
13753 51. Wisconsin. [Aug. 1969.] iv+82 p. il. 4° * Paper, \$1.00. ● Item 132-A-53
- 1967 censuses of business, manufactures, and mineral industries, EC67 (series). [Prepared in Business Division.] C 3.202/16: 967/(nos.)
- 13754 1. Virgin Islands of United States. [Aug. 1969.] iv+21 p. il. 4° * Paper, 50c. ● Item 132-A-49
- 13755 2. Guam. [Aug. 1969.] iv+22 p. il. 4° * Paper, 50c. ● Item 132-A-13

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

1967 census of business: Selected services area statistics BC67-SA (series).

[Preprint of v. 8, Selected services, area statistics.]

C 3.202/14: 967/(nos.)

- 13756 4. Arizona. [Sept. 1969.] iv+45 p. il. 4° * Paper, 55c. ● Item 132-A-4
13757 30. Nevada. [Sept. 1969.] iv+39 p. il. 4° * Paper, 55c. ● Item 132-A-31

- 13758 1970 census photo log. July 1969. 10 p. il. oblong 8° † C 3.2:C 33/24

Census use study report.

- 13759 2. Computer mapping: [prepared by Amy B. Unfried]. [Aug. 1969.] [3]+44 p. il. 4° [Text on p. 2 and 3 of cover.] † Paper, 25c. C 3.244:2

- 13760 Cotton production in United States, crop of 1968. [1969.] iii+40 p. ([Agriculture Division.]) * Paper, 20c. ● Item 141
L.C. card 25-26795 C 3.32: 968

- 13761 Current industrial reports: Mattresses and bedsprings, summary for 1968. July 24, 1969. 3 p. 4° (Series M25E(68)-13.) † Paper, 15c. ● Item 142-A C 3.158: M 25 E(68)-13

- 13762 — Shipments of defense-oriented industries, 1967. Aug. 11, 1969. [3]+33 p. 4° (Series MA-175(67)-2.) † Paper, \$1.00. ● Item 142-A C 3.158: MA-175(67)-2

Current population reports: Series P-20, Population characteristics. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-20/(nos.)

- 13763 189. Selected characteristics of persons and families, Mar. 1969, income, poverty, education, mobility, family and household composition, fertility, Aug. 18, 1969. ii+15 p. 4° * Paper, 20c.

Current population reports: Series P-23, Technical studies. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-23/(nos.)

- 13764 28. Revision in poverty statistics, 1959 to 1968. Aug. 12, 1969. 7 p. 4° * Paper, 10c.

Current population reports: Series P-25, Population estimates and projections. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-25/(nos.)

- 13765 424. Estimates of population of United States to May 1, 1969. June 18, 1969. 2 p. 4° * Paper, 5c.

- 13766 428. Estimates of population of United States by age, race, and sex, July 1, 1969 (advance report.) Aug. 19, 1969. 2 p. 4° * Paper, 5c.

- 13767 429. Estimates of population of United States to July 1, 1969. Aug. 20, 1969. 2 p. 4° * Paper, 5c.

- 13768 430. Estimates of population of States, July 1, 1968 and 1969 (advance report.) Aug. 29, 1969. 2 p. 4° * Paper, 5c.

Current population reports: Series P-60, Consumer income. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-60/(nos.)

- 13769 63. Average family income up 8 percent in 1968 (advance data from Mar. 1969 sample survey). Sept. 8, 1969. 5 p. 4° * Paper, 10c.

Current population reports: Series P-65, Consumer buying indicators. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-65/(nos.)

- 13770 27. Recent purchases of cars, houses, and other durables and expectations to buy during months ahead, survey data through July 1969. Aug. 22, 1969. ii+18 p. il. 4° * Paper, 20c.

GOVERNMENT PUBLICATIONS

Data access descriptions: Census tabulations available on computer tape series, CT-. [Intended as introductions to means of access to Census Bureau data for persons with data requirements not fully met by printed reports.] † ● Item 142-D C 3.240/3:(nos.)

- 13771 3. Second count summary tapes from 1970 census of population and housing. Aug. 1969. 13 p. 4° (DAD 8.)
- 13772 4. Third count (block) summary tapes from 1970 census of population and housing. Aug. 1969. 6+ [1] p. 4°
- 13773 Metropolitan area statistics. [Sept. 1969.] cover title, 863-922 p. [Includes list of related publications on p. 3 of cover. Reprint from Statistical abstract of United States, 1969.] * Paper, 35c. C 3.134/a: M 567/969
- 13774 Statistical abstract of United States, 1969 [National data book and guide to sources]. 90th annual edition. 1969. [1]+xx+1032 p. il. [Prepared under supervision of William Lerner, assistant chief, Statistical Information Division. Includes copyright material. Also issued as H. doc. 71, 91st Congress, 1st session.] * Cloth, \$5.75. ● Item 150
L.C. card 4-18089 C 3.134: 969

Technical paper.

- 13775 21. Postcensal survey: Characteristics of America's engineers and scientists, 1960 and 1962. [1969.] vi+73 p. 4° ([Population Division.]) [Prepared in cooperation with National Science Foundation.] * Paper, 70c. ● Item 151-A
L.C. card 77-602469 C 3.212: 21

CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, DC 20201

- 13776 Children's Bureau publications for parents. [1969.] 4 p. il. narrow 8° †
● Item 450 FS 17.212: P 21/969
- 13777 Hemolytic disease of fetus and newborn due to RH isoimmunization [with list of references; prepared by Jane S. Lin-Fu]. [Sept. 1968.] 15 p. 4° †
FS 17.202: H 37

Research reports.

- 13778 3. Prelude to school, an evaluation of inner-city preschool program: [by] Ivor Kraft, Jean Fuschillo, Elizabeth Herzog. 1968 [published 1969.] [4]+92 p. 4° † ● Item 453-B
L.C. card 71-603679 FS 17.214: 3

CIVIL AERONAUTICS BOARD Washington, DC 20428

- 13779 List of U.S. air carriers; prepared by Publications Services Section. Sept. 1, 1969. 10 p. oblong 8° [Page 4 intentionally left blank.] †
C 31.254: 969-2

CIVIL DEFENSE OFFICE (Army), Defense Dept. Washington, DC 20310

- 13780 Federal civil defense guide: pt. D, chap. 3, app. 3, Change 1. Instructions for preparing community shelter plan in smaller communities. July 1969. cover title, p. 13-14, 4° [Issued in looseleaf form.] † ● Item 320-B-3
D 119.8/4: pt.D/chap.3/app.3/ch.1
- Leaflet L (series). † ● Item 857-D-5 D 119.13: (nos.)
- 13781 41. Professional development courses [in nuclear defense design] for architects and engineers. July 1969 [6] p. il. narrow 8° [Supersedes L-41, July 1968.]
- 13782 65. The Grange and civil defense. June 1969. [2] p. il. 4° folded into oblong 48° size.

Technical report TR (series).

- 13783 59. Computer program to analyze dynamic response of high rise buildings to nuclear blast loading [with list of references]. July 1969. cover title, [200] p. il. 4° [Combined reprint of two reports published in 1964 as segments of former Professional guide series (PG 80-18-1 and PG 80-18-2). Issued with perforations.] † ● Item 320-B-2 D 119.9: 59

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

OCTOBER 1969

CIVIL RIGHTS COMMISSION
Washington, DC 20425

Clearinghouse publications.

CR 1.10 : (nos.)

- 13784 13. Who will listen? [1969.] cover title, [1]+16 p. 4° [Page 16 on p. 3 of
of cover.] †
L.C. card 73-603690
- 13785 17. Equal employment opportunity under Federal law, guide to Federal law pro-
hibiting discrimination on account of race, religion, or national origin in
private and public employment, Aug. 1969. [4]+27 p. * Paper, 25c.
● Item 288-A
L.C. card 71-603687

CIVIL SERVICE COMMISSION
Washington, DC 20415

- 13786 Amendment to announcement WAS-S27, historian, grades GS-9 to GS-12,
manpower analyst, grades GS-9 to GS-12. August 19, 1969. 1 p. oblong
48° (Interagency Board of U.S. Civil Service Examiners for Washing-
ton, D.C.) [Amends issue 190 of AN 2279.] †
CS 1.26/4 : 968/WAS-S27/amdt.
- 13787 Current Federal civil service announcements, AN-2279, issue 191, Sept.-
Oct. 1969. [1969.] [2] p. f° folded into narrow 8° size. † ● Item 292
CS 1.28 : 2279/191
- 13788 Local and regional civil service examinations offering best job opportuni-
ties, AN 2280 [issued 139], Sept.-Oct. 1969. [1969.] [2] p. oblong f°,
folded into narrow 8° size. † ● Item 292 CS 1.28 : 2280/139
- 13789 Nursing careers in Federal service GS-4 through 15, announcement 419.
July 1969. [2]+13 p. il. (Bureau of Recruiting and Examining.) †
● Item 292 CS 1.26 : 969/419

Pamphlets. ● Item 299

CS 1.48 : (nos.)

- 13790 4. Working for U.S.A., applying for civil service job, what the Govern-
ment expects of Federal workers, Apr. 1969. 38 p. il. narrow 8°
* Paper, 20c.
L.C. card 49-45939
- 13791 BRE-11. Returning Peace Corps volunteers, [June 1969.] [6] p. narrow 8° †
- 13792 BRE-17. Washington, D.C., working, living, learning, playing where the action
is [June 1969.] [6] p. narrow 8° †
- 13793 T-2. Application of systems approach to training, case study [with bibliog-
raphy]. Revised edition, June 1969. [1969.] iii+19 p. 4° ([Training
systems and technology series, no. 11]; Bureau of Training.)
[Originally issued as Pamphlet T-2, by Budget Bureau and Civil
Service Commission.] * Paper, 30c.

Personnel management series.

- 13794 21. Retired military personnel in Federal jobs, July 1969. 9+[1] p. narrow 8°
(Bureau of Policies and Standards.) * Paper, 10c. ● Item 300-A
CS 1.54 : 21
- 13795 Places where civil service examinations are held, AN 2300, Feb. 1969.
[1969.] [2] p. 4° [Supersedes all earlier editions.] † CS 1.28 : 2300/30
- 13796 Toward equal opportunity in Federal employment, for all persons to seek
and to achieve their highest potential and productivity, report to the
President from Civil Service Commission. [Aug. 1969.] cover title, [8]
p. il. 4° [Text on p. 2-3 of cover.] † ● Item 295
L.C. card 77-603431 CS 1.2 : Em 7/14
- 13797 Veterinarian trainee, grade GS-7, \$7,639 a year, summer employment for
juniors in veterinary medicine, apply to Interagency Board of U.S. Civil
Service Examiners for Washington, D.C., Hyattsville Branch Office, Fed-
eral Center Building, Hyattsville, Md. 20782, announcement WAH-922.
Nov. 4, 1969. [1969.] 6 p. narrow 8° [Closing date Feb. 2, 1970. No
written test required.] † ● Item 292 CS 1.26/4 : 969/WAH-922

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 17

GOVERNMENT PUBLICATIONS

COAST AND GEODETIC SURVEY, Commerce Dept. Washington, DC 20230

- 13798 Tidal current tables, Pacific Coast of North America and Asia, 1970. 1969. 254 p. il. [Includes list of publications relating to tides and currents.] † Paper, \$2.00. ● Item 191
L.C. card 22-26900 C 4.23: 970
- 13799 Tide tables, high and low water predictions, central and western Pacific Ocean and Indian Ocean, 1970. 1969. 386 p. [Index map of tide table coverage on p. 2 of cover. Includes list of publications related to tides and tidal currents.] † Paper, \$2.00. ● Item 196
L.C. card 7-35369 C 4.15/6: 970

COAST GUARD, Transportation Dept. Washington, DC 10591

- 13800 Correspondence course catalog, Coast Guard reserve personnel on inactive duty. 1969. cover title, [28] p. 4° (CG-391.) [Issued with perforations.] † TD 5.2: C 81/969
Oceanographic report.
- 13801 19. Oceanography of Grand Banks region of Newfoundland in 1967 [with list of references; by] Charles W. Morgan. [1969.] ix+209 p. il. 4° (CG 373-19; [Coast Guard Oceanographic Unit, Washington, D.C.].) † ● Item 940-B
L.C. card 70-603665 TD 5.18: 19

COMMERCE DEPARTMENT Washington, DC 20230

NOTE.—Requests to the Commerce Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 13802 Address by Thomas P. Dunne, Special Assistant to Deputy Assistant Secretary of Commerce for Economic Development, Economic Development Administration at Alabama Industrial Development Conference, Birmingham, Ala., Sept. 11, 1969. [1969.] [1]+8 p. 4° † C 1.18: D 92
- 13803 Auditing career in Department of Commerce. [1969.] cover title, 8 p. il. (Office of Audits.) † C 1.2: Au 2
- 13804 Directory of private programs for minority business enterprise; prepared by Economic Development Administration for Office of Minority Business Enterprise. 1st edition. Aug. 1969. iii+58 p. † ● Item 126-B
L.C. card 72-603592 C 1.56: 969
- 13805 Federal standards policy program, address by Assistant Secretary of Commerce for Science and Technology, Myron Tribus, prepared for delivery before Standards Engineers Society's annual convention, Washington, D.C., Sept. 16, 1969. 1969. 7 p. 4° † C 1.18: T 73/4
- 13806 National and Regional Export Councils, helping American business to compete successfully in world markets! [Revised Aug. 1969.] [1969.] 11 p. narrow 8° † ● Item 128 C 1.2: Ex 7/2
- 13807 Our need is so great, our objective so reasonable, our resolve so determined. remarks by Stanley Nehmer, Deputy Assistant Secretary of Commerce for Resources, prepared for delivery at 115th annual meeting of Northern Textile Association, Wentworth-by-the-Sea, Portsmouth, N.H., Sept. 16, 1969. [1969.] 11 p. 4° † C 1.18: N 31/11
- 13808 Remarks by Maurice H. Stans, Secretary of Commerce before Maritime Administration Research and Development Conference, Washington, D.C., Sept. 10, 1969. [1969.] 6 p. 4° † C 1.18: St 2/13
- 13809 Statement by William H. Chartener, Assistant Secretary for Economic Affairs, on defense-related economic activity during 2d quarter of 1969. Aug. 27, 1969. 3 p. 4° † C 1.18: C 38/23

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 13810 United States Department of Commerce publications, 1968 supplement, catalog and index; [compiled by Guy F. Glossbrenner with assistance of bureau representatives]. 1969. iv+66 p. (Office of Publications.) * Paper, 35c. ● Item 128
L.C. card 52-60731 C 1.2: P 96/supp.96S

COMMERCIAL FISHERIES BUREAU, Interior Dept.
Washington, DC 20240

C.F.S. (series). † ● Item 610-A I 49.8/2:(nos.)

- 13811 4919. Fish meal and oil, 1968, annual summary. [May 1969.] 4 p. il. 4°
13812 4929. Virginia landings, 1968, annual summary. [July 1969.] 14 p. il. 4° [Prepared in cooperation with Virginia Marine Resources Commission, Newport News and Potomac River Fisheries Commission, Colonial Beach, Va.]
13813 4935. Chesapeake fisheries, 1967, annual summary. [July 1969.] 8 p. il. 4°
13814 4953. Maine landings, 1968, annual summary. [May 1969.] 21 p. il. 4°
13815 4971. Great Lakes fisheries, 1967, annual summary. [July 1969.] 8 p. il. 4°
13816 5023. South Atlantic fisheries, 1967, annual summary. [Aug. 1969.] 10 p. il. 4°

Circulars. ● Item 609. I 49.4:(nos.)

- 13817 290. Report of Bureau of Commercial Fisheries Biological Laboratory, St. Petersburg Beach, Fla., fiscal year 1967. June 1968. iii+17 p. il. 4° (Contribution 39, Bureau of Commercial Fisheries Biological Laboratory, St. Petersburg Beach, Fla.) [Includes list of publications and manuscripts in press.] †
13818 296. Fishery publication index, 1955-64, publications of Fish and Wildlife service by series, authors, and subjects; [compiled by George Washington University]. May 1969. ii+240 p. 4° * Paper, \$1.75.
L.C. card 76-603664
13819 319. Bureau of Commercial Fisheries Great Lakes Fishery Laboratory, Ann Arbor, Mich. [Sept. 1969.] [8] p. narrow 8° †

Fishery leaflet.

- 13820 602. Eastern Pacific fishery, 1888-1966: by F. Heward Bell. [Revised] Aug. 1968. [1968.] iii+8 p. il. 4° (Branch of Fishery Statistics, Division of Economics.) [Cover illustration courtesy Pacific Fishermen.] †
● Item 611-D I 49.28: 602/2

- 13821 Proceedings, B.C.F. acoustical workshop, Nov. 25-27, 1968. Jan. 1969. iv+40 p. il. 4° (Exploratory Fishing and Gear Research Base, Seattle, Wash.) †
I 49.2: Ac 7/96S

Special scientific reports: Fisheries. ‡ ● Item 614-B I 49.15/2:(nos.)

- 13822 587. Transplanting adult pink salmon to Sashin Creek, Baranof Island, Alaska, and survival of their progeny [with list of literature cited]; by J. McNeal, Stephen C. Smedley, and Robert J. Ellis. Aug. 1969. iii+9 p. il. 4°
13823 588. Processing of digital data logger STD tapes at Scripps Institution of Oceanography and Bureau of Commercial Fisheries, La Jolla, Calif.; by James H. Jones. June 1969. iii+25 p. il. 4° [Some pages are printed as leaves.]

CONGRESS

Congressional record, proceedings and debates of 90th Congress, 2d session, v. 114. [Permanent edition.] 1968. ● Item 993

L.C. card 12-36438 X.90/1: 114/pt. (nos.)

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break.

- 13824 pt. 13. June 10-18, 1968. [1]+16381-17716 p. 4° * Cloth, \$6.75.
13825 pt. 14. June 19-26, 1968. [1]+17717-19060 p. 4° * Cloth, \$6.00.
13826 pt. 15. June 27-July 9, 1968. [1]+19061-20422 p. 4° * Cloth, \$6.25.
13827 pt. 16. July 10-16, 1968. [1]+20423-21656 p. 4° * Cloth, \$6.00.
13828 pt. 17. July 17-23, 1968. [1]+21657-22978 p. 4° * Cloth, \$6.25.
13829 pt. 19. July 31-Sept. 4, 1968. [1]+24367-25746 p. 4° * Cloth, \$6.50.

Congressional serial set

NOTE.—During each session of Congress the House and Senate documents and reports are accumulated into bound volumes comprising the Congressional serial set. No catalog entry is made for the volumes of the Serial set since the documents and reports contained therein have been previously listed in the Monthly catalog.

The following bound volumes were sent to depository libraries during the period of this catalog:

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

House documents:

- 13830 nos. 287, 293, 90th Congress, 2d session, Reports Boy Scouts of America and Girl Scouts of U.S.A., 1967 [Serial 12807-3]. ● Item 995-P
13831 no. 111, 91st Congress, 1st session, 70th Encampment, United Spanish War Veterans, 1968 [Serial 12851-6]. ● Item 885-K
13832 no. 137, 91st Congress, 1st session, Technical Information for Congress [Serial 12852-2]. ● Item 995-G

Senate document:

- 13833 no. 5, 91st Congress, 1st session, Daughters of the American Revolution, 1965-66 [Serial 12842]. ● Item 995-B

Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 91st Congress. † House or Senate Document Rooms, Capitol.

- 13834 33. H.R. 6585, act for relief of Mr. and Mrs. A. F. Elgin. Approved Aug. 4, 1969. 1 p.
13835 34. H.R. 3379, act for relief of Sfc. Patrick Marratto, United States Army (retired). Approved Aug. 4, 1969. 1 p.
13836 35. H.R. 1632, act for relief of Romeo de la Torre Sanano and his sister, Julieta de la Torre Sanano. Approved Aug. 18, 1969. 1 p.
13837 36. H.R. 2336, act for relief of Adela Kaczmariski. Approved Aug. 18, 1969. 1 p.
13838 37. H.R. 6581, act for relief of Bernard A. Hegemann. Approved Aug. 18, 1969. 1 p.
13839 38. H.R. 2037, act for relief of Robert W. Barrie and Marguerite J. Barrie. Approved Aug. 20, 1969. 1 p.
13840 39. H.R. 1462, act for relief of Mrs. Vita Cusumano. Approved Aug. 20, 1969. 1 p.
13841 40. H.R. 1808, act for relief of Capt. John W. Booth, III. Approved Aug. 20, 1969. 1 p.
13842 41. H.R. 9088, act for relief of Clifford L. Petty. Approved Aug. 20, 1969. 1 p.
13843 42. H.R. 8136, act for relief of Anthony Smilko. Approved Aug. 30, 1969. 1 p.
13844 43. H.R. 1707, act for relief of Miss Jalileh Farah Salameh El Ahwal. Approved Aug. 25, 1969. 1 p.
13845 44. H.R. 5107, act for relief of Miss Maria Mosio. Approved Aug. 25, 1969. 1 p.

Public laws, 91st Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402, at a subscription price of \$20.00 per session, \$5.00 additional for foreign mailing; single copies vary in price.

- 13846 47. H.R. 11400, act making supplemental appropriations for fiscal year June 30, 1969, and for other purposes. [Approved July 22, 1969.] 35 p. * Paper, 15c.

ATOMIC ENERGY JOINT COMMITTEE Washington, DC 20515

- 13847 La Crosse boiling water reactor project, hearing before Subcommittee on Legislation, 90th Congress, 1st session, on La Crosse boiling water reactor project and materials concerning Hallam, Elk River, Pathfinder, BONUS and Piqua reactor projects, May 4, 1967. 1969. vi+536 p. il. * Paper, \$2.25. ● Item 999
L.C. card 72-603229 Y 4.At 7/2: L 11/4

ECONOMIC JOINT COMMITTEE Washington, DC 20510

- 13848 Innovations in planning, programing, and budgeting in State and local governments, compendium of paper [compiled by Robert Haveman], submitted to Subcommittee on Economy in Government. 1969. v+218 p. il. (Joint committee print, 91st Congress, 1st session.) * Paper, \$1.00. ● Item 1000
L.C. card 77-603640 Y 4.Ec 7: P 69/3

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

HOUSE OF REPRESENTATIVES
Washington, DC 20515*House documents*

NOTE.—All house documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

House documents, 90th Congress.

- 13849 286. Proceedings of state convention of 69th national encampment, United Spanish War Veterans, San Antonio, Tex., Sept. 2-7, 1967; Mar. 25, 1968. 1968. v+116 p. il. 2 por. † (Sent to depository libraries in Serial set binding.)
L.C. card CA 10-5225

House document, 91st Congress.

- 13850 14. Annual report to Comptroller General of United States, fiscal year 1968. 1968. xi+383 p. il. * (Available in department edition, \$1.75, GA 1.1:968, and sent to depositories in that form. See Entry no. 14301.)
- 13851 25, v. 1. U.S. Army register: v. 1, Regular Army active list, Jan. 1, 1969. 1969. xlii+[3]+468 p. 4° * (Available in department edition, \$4.25, D 102.9: 969/v.1 and sent to depositories in that form. See Entry no. 13678.)
- 13852 25, v. 2. U.S. Army register: v. 2, Army NGUS, USAR, and other active lists, Jan. 1, 1969. 1969. xlii+[4]+1259 p. 4° * (Available in departmental edition, \$9.50, D 102.9: 969/v.2 and sent to depositories in that form. See Entry no. 13679.)
- 13853 25, v. 3. U.S. Army register: v. 3, Retired lists, Jan. 1, 1969. 1969. vi+[5]+398 p. 4° * (Available in departmental edition, \$3.50, D 102.9: 969/v.3 and sent to depositories in that form. See Entry no. 13680.)
- 13854 25, v. 4. U.S. Army register: v. 4, Officers' honorary retired list, Jan. 1, 1969. [1969.] [2]+8 p. * (Available in departmental edition, 10c, D 102.9: 969/v.4 and sent to depositories in that form. See Entry No. 13681.)
- 13855 27. Railroad Retirement Board, 1968 annual report for fiscal year. [1969.] vii+170 p. il. * (Available in departmental edition, \$1.00, RR 1.1: 968, and sent to depositories in that form. See Entry no. 14823.)
- 13856 71. Statistical abstract of United States, 1969 [National data book and guide to sources]. 90th annual edition. 1969. xx+1032 p. il. [Prepared under supervision of William Lerner, assistant chief, Statistical Information Division. Includes copyright material.] * (Available in departmental edition, cloth, \$5.75, C 3.134: 969, and sent to depositories in that form. See Entry no. 13774.)
- 13857 95. 1968 annual report, Girl Scouts of United States of America, 830 3d Ave., New York, N.Y. 10022. [1969.] x+85 p. il. * Paper, 45c. (To be sent to depository libraries in Serial set binding.)
- 13858 111. Proceedings of stated convention of 70th national encampment, United Spanish War Veterans, Asbury Park, N.J., Sept. 8-12, 1968; Apr. 30, 1969. 1969. v+105 p. il. 2 por. † (To be sent to depository libraries in Serial set binding.)
L.C. card CA10-5225
- 13859 133. 24th report of Advisory Commission on Information; July 1, 1969. 1969. [3]+12 p. [Report dated May 19, 1969.] † ● Item 996
L.C. card 49-46343
- 13860 134. Hungarian in Rumania and Transylvania, bibliographical list of publications in Hungarian and West European languages, compiled from holdings of Library of Congress, by Elmer Bako and William Solyom-Fekete, with preface by Edward J. Patten, Representative from New Jersey. 1969. vii+192 p. [Prepared by Library of Congress.] † ● Item 996
L.C. card 71-603017
- 13861 146. Proposals for welfare program, message from the President of United States relative to welfare reform. Aug. 11, 1969. 8 p. † ● Item 996
- 13862 147. Manpower training, message from the President of United States, Aug. 12, 1969. 5 p. † ● Item 996
- 13863 148. Federal-State revenues, message from the President of United States relative to Federal revenue sharing with States. Aug. 13, 1969. 4 p. † ● Item 996

House Reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on private bills, 91st Congress. † House Document Room, Capitol. ● Item 1008-B

- 13864 371. Incorporate the Paralyzed Veterans of America. Report from Committee on District of Columbia to accompany H.R. 1783. July 10, 1969. 4 p.
- 13865 374. Lease of District property to Jewish Historical Society of Greater Washington. Report from Committee on District of Columbia to accompany H.R. 12677. July 11, 1969. 4 p.

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

House reports on private bills—Continued

- 13866 401. Dr. Jagir Singh Randhawa. Report from Committee on Judiciary to accompany S. 85. July 30, 1969. 5 p.
- 13867 402. Cheng-Hual Li. Report from Committee on Judiciary to accompany S. 348. July 30, 1969. 5 p.
- 13868 403. Mrs. Irene G. Queja. Report from Committee on Judiciary to accompany S. 564. July 30, 1969. 6 p.
- 13869 404. Favoring suspension of deportation of certain aliens. Report from Committee on Judiciary to accompany S. Con. Res. 33. July 30, 1969. 2 p.
- 13870 406. Delilah Aurora Gamatero. Report from Committee on Judiciary to accompany H.R. 2817. July 30, 1969. 7 p.
- 13871 408. Mrs. Sabila Riggi Farina. Report from Committee on Judiciary to accompany H.R. 3629. July 31, 1969. 4 p.
- 13872 409. Placido Viterbo. Report from Committee on Judiciary to accompany H.R. 3955. July 31, 1969. 7 p.
- 13873 410. William Patrick Magee. Report from Committee on Judiciary to accompany H.R. 9001. July 31, 1969. 7 p.
- 13874 416. Certain civilian employees and former civilian employees of Bureau of Reclamation. Report from Committee on Judiciary to accompany S. 83. Aug. 1, 1969. 2 p.
- 13875 417. Capt. Richard L. Schumaker, U.S. Army. Report from Committee on Judiciary to accompany S. 728. Aug. 5, 1969. 8 p.
- 13876 418. Yvonne Davis. Report from Committee on Judiciary to accompany S. 757. Aug. 5, 1969. 4 p.
- 13877 419. William D. Pender. Report from Committee on Judiciary to accompany S. 901. Aug. 5, 1969. 6 p.
- 13878 420. Mrs. Rose Thomas. Report from Committee on Judiciary to accompany H.R. 2302. Aug. 5, 1969. 6 p.
- 13879 421. Miloye M. Sokitch. Report from Committee on Judiciary to accompany H.R. 3571. Aug. 5, 1969. 7 p.
- 13880 422. Capt. John T. Lawlor (retired). Report from Committee on Judiciary to accompany H.R. 8694. Aug. 5, 1969. 5 p.
- 13881 423. Paul Anthony Kelly. Report from Committee on Judiciary to accompany H.R. 8904. Aug. 5, 1969. 4 p.
- 13882 424. Hannibal B. Taylor. Report from Committee on Judiciary to accompany H.R. 9910. Aug. 5, 1969. 9 p.
- 13883 425. Philip J. Tichman. Report from Committee on Judiciary to accompany H.R. 10558. Aug. 5, 1969. 6 p.
- 13884 430. Lt. Col. Samuel J. Cole, U.S. Army (retired). Report from Committee on Judiciary to accompany S. 267. Aug. 6, 1969. 10 p.
- 13885 431. Ludger J. Cossette. Report from Committee on Judiciary to accompany S. 499. Aug. 6, 1969. 4 p.
- 13886 432. Richard Virgil. Report from Committee on Judiciary to accompany S. 620. Aug. 6, 1969. 4 p.
- 13887 433. Raymond C. Melvin. Report from Committee on Judiciary to accompany S. 632. Aug. 6, 1969. 5 p.
- 13888 434. Capt. William O. Hanle. Report from Committee on Judiciary to accompany S. 882. Aug. 6, 1969. 3 p.
- 13889 435. Branka Mardessich and Sonia S. Silvani. Report from Committee on Judiciary to accompany H. Res. 498. Aug. 6, 1969. 9 p.
- 13890 436. Emma Zimmerli. Report from Committee on Judiciary to accompany H.R. 2260. Aug. 6, 1969. 4 p.
- 13891 437. Elbert C. Moore. Report from Committee on Judiciary to accompany H.R. 2407. Aug. 6, 1969. 11 p.
- 13892 438. Frank J. Enright. Report from Committee on Judiciary to accompany H.R. 2458. Aug. 6, 1969. 2 p.
- 13893 439. Comdr. John N. Green. Report from Committee on Judiciary to accompany H.R. 2477. Aug. 6, 1969. 5 p.
- 13894 440. Mrs. Barbara K. Diamond. Report from Committee on Judiciary to accompany H.R. 2963. Aug. 6, 1969. 5 p.
- 13895 441. Lawrence Brink and Violet Nitschke. Report from Committee on Judiciary to accompany H.R. 4634. Aug. 6, 1969. 4 p.
- 13896 442. Pedro Irizarry Guido. Report from Committee on Judiciary to accompany H.R. 5000. Aug. 6, 1969. 10 p.
- 13897 443. Bert N. Adams and Emma Adams. Report from Committee on Judiciary to accompany H.R. 7567. Aug. 9, 1969. 7 p.
- 13898 444. Mrs. Iris O. Hicks. Report from Committee on Judiciary to accompany H.R. 10356. Aug. 6, 1969. 4 p.
- 13899 445. Victor L. Ashley. Report from Committee on Judiciary to accompany H.R. 11060. Aug. 6, 1969. 7 p.
- 13900 446. Wylo Pleasant, doing business as Pleasant Western Lumber Co. (now known as Pleasant's Logging & Milling, Inc.). Report from Committee on Judiciary to accompany H.R. 11503. Aug. 6, 1969. 7 p.
- 13901 447. Mr. and Mrs. John F. Fuentes. Report from Committee on Judiciary to accompany H.R. 11500. Aug. 6, 1969. 3 p.
- 13902 448. Rose Minutillo. Report from Committee on Judiciary to accompany H.R. 12089. Aug. 6, 1969. 4 p.
- 13903 449. T. Sgt. Peter Elias Gianutos [Gianutsos], U.S. Air Force (retired). Report from Committee on Judiciary to accompany H.R. 11890. Aug. 6, 1969. 7 p.
- 13904 450. Maj. Louis A. Deering. Report from Committee on Judiciary to accompany H.R. 11968. Aug. 6, 1969. 3 p.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 13905 465. Irving M. Sobin Co., Inc., and/or Irving M. Sobin Chemical Co., Inc. Report from Committee on Judiciary to accompany H.R. 1782. Aug. 11, 1969. 6 p.
- 13906 467. Opposing granting of permanent residence in United States to certain aliens. Report from Committee on Judiciary to accompany H. Res. 422. Aug. 12, 1969. 3 p.

House reports on public bills, 91st Congress.† House Document Room, Capitol. ● Item 1008-A

- 13907 414. Court leave for employees of United States and District of Columbia. Report from Committee on Post Office and Civil Service to accompany H.R. 12979. Aug. 5, 1969. 13 p.
- 13908 457. Amending rule 35 of rules of House of Representatives to increase fees of witnesses before the House or its committees. Report from Committee on Rules to accompany H. Res. 495. Aug. 7, 1969. 1 p.
- 13909 458. Authorizing Committee on Post Office and Civil Service to conduct studies and investigations within its jurisdiction. Report from Committee on Rules to accompany H. Res. 269. Aug. 7, 1969. 1 p.
- 13910 469. Hours of service act amendments of 1969. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 8449. Aug. 13, 1969. 14 p.

Agriculture Committee, House
Washington, DC 20515

[Committee hearings] serial, 91st Congress. † ● Item 1010

- 13911 L. Provide flexible interest rate on loans to associations for water and waste disposal, hearing before Subcommittee on Conservation and Credit, 91st Congress, 1st session, on H.R. 5850, June 17, 1969. 1969. iii+31 p.
L.C. card 77-603379 Y 4.Ag S/1: L 78/12
- 13912 M. Increase license fees under Perishable agricultural commodities act of 1930, hearing before Subcommittee on Domestic Marketing and Consumer Relations, 91st Congress, 1st session, on H.R. 9857, July 17, 1969. 1969. iii+37 p.
L.C. card 71-603364 Y 4.Ag S/1: L 61
- 13913 N. Amend Federal seed act, hearing before Subcommittee on Departmental Operations, 91st Congress, 1st session, on H.R. 10236, H.R. 10423, H.R. 10552, and H.R. 10653, July 23, 1969. 1969. iii+31 p.
L.C. card 70-603350 Y 4.Ag S/1: Se 3/12/1969
- 13914 O. Increase durum wheat allotments, hearing before Subcommittee on Livestock and Grains, 91st Congress, 1st session, on H.R. 485, July 23, 1969. 1969. iii+34 p.
L.C. card 78-603363 Y 4.Ag S/1: W 56/13/1969
- 13915 P. Authorize production research under marketing agreement and order programs, hearing before Subcommittee on Domestic Marketing and Consumer Relations, 91st Congress, 1st session, on H. R. 8536 and H.R. 11663, July 28, 1969. 1969. iii+22 p.
L.C. card 77-603360 Y 4.Ag S/1: P 94/6

Appropriations Committee, House
Washington, DC 20515

- 13916 Department of Defense appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session.
pt. 3. Procurement. 1969. ii+1163+xxii p. il. † ● Item 1011
L.C. card 61-60926 Y 4.Ap 6/1: D 36/5/1970/pt.3
- 13917 Legislative branch appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session. 1969. ii+684+ix p. il. † ● Item 1011
L.C. card 60-61305 Y 4.Ap 6/1: L 52/1970
- 13918 Public works appropriations for 1970 for water and power resources development and Atomic Energy Commission, hearings before subcommittee, 91st Congress, 1st session † ● Item 1011
L.C. card 77-603537 Y 4.Ap 6/1: P 96/14/1970/pt.(nos.)
- pt. 1. Civil functions, Department of Army, statement of Deputy Chief of Engineers, Missouri River Division, New England Division, North Atlantic Division, North Central Division, Ohio River Division, South Atlantic Division, Southwestern Division. 1969. ii+1254+xxii p. il.
- pt. 4. Atomic Energy Commission. 1969. ii+733+vi. p. il.
- pt. 5. Testimony of Members of Congress, and other individuals and organizations. 1969. ii+1912+xiv p. il.

GOVERNMENT PUBLICATIONS

Armed Services Committee, House
Washington, DC 20515

- 13919 34th report to Congress (Jan. 1-June 30, 1969) of Department of Defense in accordance with sec. 2455, title 10, U.S.C. (formerly sec. 8 of Public law 426, 82d Congress), on Defense cataloging and standardization act of 1952, report of Armed Services Investigating Subcommittee, 91st Congress, 1st session; Sept. 8, 1969. 1969. iii+16 p. (Committee print.) ‡
L.C. card 53-60980 Y 4.Ar 5/2: D 36/2/969
- 13920 Review of Army tank program, hearings before Armed Services Investigating Subcommittee, 91st Congress, 1st session, under authority of H. Res. 105; Mar. 13-Apr. 28, 1969. 1969. iv+568 p. il. † ● Item 1012
L.C. card 70-603377 Y 4.Ar 5/2: T 15/3

Banking and Currency Committee, House
Washington, DC 20515

- 13921 H.R. 6778 and H.R. 9385, text of proposed changes in and additions to existing law, together with summaries of bills; [prepared by committee staff in collaboration with Office of Legislative Counsel], Mar. 28, 1969. 1969. [1]+49 p. (Committee print.) ‡
L.C. card 71-603522 Y 4.B 22/1: B 22/21
- 13922 Housing and urban development legislation, 1969, hearings before Subcommittee on Housing, 91st Congress, 1st session, July 17-30, 1969. vi+623 p. il. 1 pl. † ● Item 1013
L.C. card 70-603594 Y 4.B 22/1: H 81/46/969
- 13923 Recent international financial and monetary developments, hearing before Subcommittee on International Finance, 91st Congress, 1st session, Aug. 6, 1969. 1969. iii+26 p. † ● Item 1013
L.C. card 79-603366 Y 4.B 22/1: In 8/20

Education and Labor Committee, House
Washington, DC 20515

- 13924 Children with learning disabilities act of 1969, hearings before General Subcommittee on Education, 91st Congress, 1st session on H.R. 8660 and H.R. 9065, July 8-10, 1969. 1969. v+236 p. il. † ● Item 1015
L.C. card 75-603227 Y 4.Ed 8/1: C 43/5
- 13925 Economic opportunity amendments of 1969, hearings before Ad Hoc Hearing Task Force on Poverty, 91st Congress, 1st session, on H.R. 513. L.C. card 73-602058 Y 4.Ed 8/1: Ec 7/969/pt.5
pt. 5. Appendix. 1969. vii+2821-3083 p. † ● Item 1015
- 13926 Employment of green card aliens during labor disputes, hearings before Special Subcommittee on Labor, 91st Congress, 1st session, on H.R. 12667, July 16-Aug. 8, 1969. iv+250 p. il. † ● Item 1015
L.C. card 72-603525 Y 4.Ed 8/1: A1 4
- 13927 Gifted and talented children educational assistance act, hearing before General Subcommittee on Education, 91st Congress, 1st session, on H.R. 4807 and H.R. 12814, July 15, 1969. 1969. iii+65 p. † ● Item 1015
L.C. card 75-603373 Y 4.Ed 8/1: C 43/6

Foreign Affairs Committee, House
Washington, DC 20515

- 13928 Foreign assistance act of 1969, hearings, 91st Congress, 1st session, on H.R. 11792. ● Item 1017
L.C. card 70-602763 Y 4.F 76/1: F 76/28/969/pt. (nos.)
- | | |
|----------------|---|
| pt. 3. | June 23-30, 1969. 1969. iv+461-667 p. il. * Paper, 75c. |
| pt. 4. | July 1-11, 1969. 1969. iv+669-898 p. * Paper, \$1.00. |
| pt. 5. | July 14-18, 1969. 1969. vi+899-1147 p. * Paper, \$1.00. |
| pt. 6. | July 22-28, 1969. 1969. iv+1149-1383 p. * Paper, \$1.00. |
| pt. 7 and app. | July 29-Aug. 1, 1969. 1969. v 1385-1672 p. il. * Paper, \$1.25. |

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 13929 U.S. participation in international expositions held in United States, hearings before Subcommittee on International Organizations and Movements, 91st Congress, 1st session on H.R. 13171, H.R. 11129, and S. 856. July 30, 1969. 1969. iii+20 p. † ● Item 1017
L.C. card 70-603234 Y 4.F 76/1: Ex 7/2

Government Operations Committee, House
Washington, DC 20515

- 13930 Deficiencies in administration of Federal insecticide, fungicide, and rodenticide act, hearings before subcommittee, 91st Congress, 1st session, May 7 and June 24, 1969. 1969. iv+310 p. il. † ● Item 1016
L.C. card 70-603393 Y 4.G 74/7: F 31/14
- 13931 Realining regional boundaries of certain Federal agencies, hearing before subcommittee, 91st Congress, 1st session, May 8, 1969. 1969. iii+67 p. † ● Item 1016
L.C. card 78-603233 Y 4.G 74/7: B 66
- 13932 Rural Electrification Administration's bulletin inhibiting political activities by its borrowers and their employees, hearing before subcommittee, 91st Congress, 1st session, July 15, 1969. 1969. iii+60 p. † ● Item 1016
L.C. card 76-603613 Y 4.G 74/7: R 88/2

Internal Security Committee, House
Washington, DC 20515

NOTE.—The name of the Un-American Activities Committee has been changed to the Internal Security Committee.

- 13933 Investigation of Students For a Democratic Society, hearings, 91st Congress, 1st session. ● Item 1026
L.C. card 70-602885 Y 4.In 8/15: St 9/pt. (nos.)
- pt. 1-A. Georgetown University, June 3 and 4, 1969. 1969. v+1-266+vii p. il.
* Paper, \$1.00.
- pt. 1-B. Georgetown University, June 5 and 17, 1969. 1969. v+267-474+vii p. il.
* Paper, \$1.00.
- pt. 2. Kent State University, June 24 and 25, 1969. 1969. v+475-642+vii p. il.
* Paper, 70c.

Merchant Marine and Fisheries Committee, House
Washington, DC 20515

[Committee hearing] serial, 91st Congress.

- 13934 9. Passenger vessel legislation, hearing before Subcommittee on Merchant Marine, 91st Congress, 1st session, on H.R. 210 [and] H.R. 12605, July 22, 1969. 1969. iii+36 p. † ● Item 1021
L.C. card 79-603374 Y 4.M 53: 91-9

Post Office and Civil Service Committee, House
Washington, DC 20515

[Committee hearings] serial, 91st Congress. † ● Item 1022

- L.C. card 72-602528 Y 4.P 84/10: 91-(nos.)
- 13935 4. Post Office reorganization, hearings, 91st Congress, 1st session, on various proposals to reform postal establishment, pt. 2. June 20-July 22, 1969. 1969. v+371-845 p. il.
- 4(a). Post Office reorganizations, hearings, 91st Congress, 1st session, on various proposals to reform postal establishment, pt. 3. July 23-Aug. 12, 1969. 1969. xiii+847-1318 p. [Contents for 3 parts included.]
- 13936 12. Obscenity in the mails, hearings, 91st Congress, 1st session, on H.R. 10867. pt. 1. Aug. 5 and 6, 1969. 1969. xv+199 p.
L.C. card 70-603586
- 13937 Pay comparability system act of 1969, H.R. 12124, Subcommittee on Compensation: June 18, 1969. 1969. ii+22 p. (Committee print.) †
L.C. card 70-602999 Y 4.P 84/10: P 29/12/969
- 13938 Salary and retirement annuity increases of Federal classified and postal employees, 1945-69, together with current salary schedules; July 1969. 1969. ii+10 p. (Committee print 10, 91st Congress, 1st session.) †
L.C. card 75-602995 Y 4.P 84/10: Sa 3/15/945-69

GOVERNMENT PUBLICATIONS

Public Works Committee, House
Washington, DC 20515

[Committee publication], 91st Congress.

- 13939 9. Highway legislation, hearings before Subcommittee on Roads, 91st Congress, 1st session [on] H.R. 9446, H.R. 4808, H.R. 6785, and related bills, May 13-June 5, 1969. 1969. vii+625 p. il. † ● Item 1024
L.C. card 73-603587 Y 4.P 96/11 : 91-9

Rules Committee, House
Washington, DC 20515

- 13940 Proposing amendment to Constitution of United States relating to election of the President and the Vice President, hearings, 91st Congress, 1st session, on H.J. Res. 681 and similar measures, July 17-24, 1969. 1969. iii+98 p. † ● Item 1025
L.C. card 77-603529 Y 4.R 86/1 : P 92/3/969

Science and Astronautics Committee, House
Washington, DC 20515

- 13941 Technology, processes of assessment and choice, report of National Academy of Sciences [with lists of references and notes]. July 1969. xiv+163 p. ([Committee print.]) * Paper, 75c.
L.C. card 73-603536 Y 4.Sci 2 : T 22

Small Business, Select Committee on, House
Washington, DC 20515

- 13942 Tax-exempt foundations and charitable trusts, their impact on our economy, 7th installment, subcommittee chairman's report to Subcommittee No. 1, 91st Congress; June 30, 1969. 1969. v+165 p. oblong 8° (Committee print.) * Paper, \$1.50.
L.C. card 63-60464 Y 4.Sm 1 : T 19/2/7th inst.

Veteran's Affairs Committee, House
Washington, DC 20515

- 13943 Construction of new VA hospital in southern California, hearings before Subcommittee on Hospitals, 91st Congress, 1st session, on H.R. 863 and H.R. 6298; Aug. 1, 1968. 1969. vii+1931-2026 p. il. † ● Item 1027
L.C. card 77-603352 Y 4.V 64/3 : H 79/28

Ways and Means Committee, House
Washington, DC 20515

- 13944 Foreign trade and tariff proposals, hearings, 90th Congress, 2d session, on tariff and trade proposals, June 4-July 2, 1968.
pt. 11. Contains summaries of testimony presented in pts. 1-10. 1969. viii+5601-5827 p. [Prepared with assistance of staff of Tariff Commission.]
* Paper, \$1.00. ● Item 1028
L.C. card 68-61842 Y 4.W 36 : F 76tr/7/pt.11
- 13945 Press releases announcing tentative decisions on tax reform subjects as announced by Wilbur D. Mills, including press release of May 27, 1969 and press release of July 11, 1969. 1969. iii+16 p. (Committee print, 91st Congress, 1st session.) * Paper, 15c.
L.C. card 73-603473 Y 4.W 36 : T 19/47/969-2
- 13946 Revised summary list and brief description of provisions contained in H.R. 13270, Tax reform act of 1969. 1969. ii+5 p. (Committee print, 91st Congress, 1st session.) * Paper, 20c.
L.C. card 72-603533 Y 4.W 36 : T 19/48

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

OCTOBER 1969

PRINTING JOINT COMMITTEE
Washington, DC 20510

- 13947 [Government paper specification standards no. 6, Change, effective Feb. 1, 1968.] Aug. 25, 1969. [21] leaves, 4° [Issued in looseleaf form.]
* Paper, \$2.00 (including supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 1004-B
Y 4.1° 93/1 : 7/6/ch.-3

SENATE
Washington, DC 20510

Senate documents

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 91st Congress.

- 13948 30. Report of Secretary of Senate, Jan. 1–June 30, 1969; Aug. 25, 1969. 1969. iv+503 p. † (To be sent to depository libraries in Serial set binding.)
13949 31. Semiannual report of Architect of Capitol, Jan. 1–June 30, 1969, pursuant to sec. 105(b), Public Law 454, 88th Congress; Aug. 26, 1969. 1969. iii+115 p. † ● Item 996

Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 91st Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 13950 298. Lt. Col. Samuel J. Cole, U.S. Army (retired). Report from Committee on Judiciary to accompany S. 267. July 10, 1969. 8 p.
13951 301. Dr. Diego Aguilar Aranda. Report from Committee on Judiciary to accompany S. 571. July 10, 1969. 6 p.
13952 302. Dug Foo Wong. Report from Committee on Judiciary to accompany S. 2019. July 10, 1969. 4 p.
13953 303. Conferring U.S. citizenship posthumously upon James F. Wegener. Report from Committee on Judiciary to accompany H.R. 1828. July 10, 1969. 3 p.
13954 304. Wu Hip. Report from Committee on Judiciary to accompany S. 1963. July 10, 1969. 8 p.
13955 305. Andrew Chu Yang. Report from Committee on Judiciary to accompany S. 1645. July 10, 1969. 5 p.
13956 306. Dr. Yavuz Aykent. Report from Committee on Judiciary to accompany S. 1798. July 10, 1969. 5 p.
13957 307. Dr. Yilmaz Bilisel. Report from Committee on Judiciary to accompany S. 1527. July 10, 1969. 4 p.
13958 308. Dr. Zeliha Bilisel. Report from Committee on Judiciary to accompany S. 1526. July 10, 1969. 4 p.
13959 309. Rueben Rosen. Report from Committee on Judiciary to accompany H.R. 2890. July 10, 1969. 5 p.
13960 310. Francesca Adriana Millonzi. Report from Committee on Judiciary to accompany H.R. 2536. July 10, 1969. 5 p.
13961 311. Franklin Jacinto Antonio. Report from Committee on Judiciary to accompany H.R. 2224. July 10, 1969.
13962 312. Pfc. Joseph Anthony Snitko. Report from Committee on Judiciary to accompany H.R. 1948. July 10, 1969. 3 p.
13963 313. Aleksander Zambelli. Report from Committee on Judiciary to accompany H.R. 3166. July 10, 1969. 3 p.
13964 314. Ryszard Stanislaw Obacz. Report from Committee on Judiciary to accompany H.R. 3167. July 10, 1969. 3 p.
13965 315. Yolanda Fulgencio Hunter. Report from Committee on Judiciary to accompany H.R. 3172. July 10, 1969. 5 p.
13966 316. Maria da Conceicao Evaristo. Report from Committee on Judiciary to accompany H.R. 3376. July 10, 1969. 6 p.
13967 317. Lance Cpl. Peter M. Nee (2465662). Report from Committee on Judiciary to accompany H.R. 10060. July 10, 1969. 2 p.
13968 318. Nickolas George Polizos. Report from Committee on Judiciary to accompany S. 1110. July 10, 1969. 6 p.
13969 322. Mr. and Mrs. Wong Yui. Report from Committee on Judiciary to accompany S. 92. July 18, 1969. 5 p.
13970 323. Sfc. Patrick Marratto. Report from Committee on Judiciary to accompany H.R. 3379. July 18, 1969. 5 p.
13971 324. Mr. and Mrs. A. F. Elgin. Report from Committee on Judiciary to accompany H.R. 6585. July 18, 1969. 8 p.

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 27

GOVERNMENT PUBLICATIONS

Senate reports on private bills—Continued

- 13972 341. Quitclaim of sand and gravel—Emogene Tilmon, Logan County, Ark. Report from Committee on Agriculture and Forestry to accompany S. 65. Aug. 6, 1969. 2 p.
- 13973 342. Quitclaim of sand and gravel—Enoch A. Lowder, Logan County, Ark. Report from Committee on Agriculture and Forestry to accompany S. 80. Aug. 6, 1969. 2 p.
- 13974 343. Quitclaim of sand and gravel—Wayne and Emogene Tilmon, Logan County, Ark. Report from Committee on Agriculture to accompany S. 82. Aug. 6, 1969. 2 p.
- 13975 345. Quitclaim of sand and gravel—J. B. and Sula Smith, Magazine, Ark. Report from Committee on Agriculture to accompany S. 81. Aug. 6, 1969. 2 p.
- 13976 352. Capt. John W. Booth III. Report from Committee on Judiciary to accompany H.R. 1808. Aug. 7, 1969. 7 p.
- 13977 353. Michel M. Goutmann. Report from Committee on Judiciary to accompany S. 1934. Aug. 7, 1969. 4 p.
- 13978 354. Mrs. Vita Cusumano. Report from Committee on Judiciary to accompany H.R. 1462. Aug. 7, 1969. 6 p.
- 13979 355. Bernard L. Coulter. Report from Committee on Judiciary to accompany H.R. 4658. Aug. 7, 1969. 3 p.
- 13980 356. Miss Jallieh Farah Salameh El Ahwal. Report from Committee on Judiciary to accompany H.R. 1707. Aug. 7, 1969. 6 p.
- 13981 357. Miss Marie Mosio. Report from Committee on Judiciary to accompany H.R. 5107. Aug. 7, 1969. 5 p.
- 13982 358. Robert W. Barrie and Marguerite J. Barrie. Report from Committee on Judiciary to accompany H.R. 2037. Aug. 7, 1969. 8 p.
- 13983 359. Bernard A. Hegemann. Report from Committee on Judiciary to accompany H.R. 6581. Aug. 7, 1969. 4 p.
- 13984 360. Anthony Smilko. Report from Committee on Judiciary to accompany H.R. 8136. Aug. 7, 1969. 3 p.
- 13985 361. Clifford L. Petty. Report from Committee on Judiciary to accompany H.R. 9088. Aug. 7, 1969. 5 p.
- 13986 362. Solomon S. Levadl. Report from Committee on Judiciary to accompany H.R. 3213. Aug. 7, 1969. 6 p.
- 13987 367. Lloyd L. Ward, jr. Report from Committee on Judiciary to accompany S. Res. 97. Aug. 8, 1969. 9 p.
- 13988 376. Cmdr. Edward White Rawlins, U.S. Navy (retired). Report from Committee on Judiciary to accompany S. Res. 96. Aug. 12, 1969. 8 p.
- 13989 388. Lease of District property to Jewish Historical Society of Greater Washington. Report from Committee on District of Columbia to accompany H.R. 12677. Aug. 13, 1969. 4 p.

Senate reports on public bills, 91st Congress. † Senate Document Room, Capitol. • Item 1008-A

- 13990 347. Amending act fixing boundary of Everglades National Park, Fla., and authorizing acquisition of land therein, in order to authorize additional amount for acquisition of certain lands for such park. Report from Interior and Insular Affairs to accompany S. 2564. Aug. 7, 1969. 4 p.
- 13991 348. Waiving acreage limitation of Public purposes land act for Valley of Fire State Park in Nevada. Report from Committee on Interior and Insular Affairs to accompany S. 1108. Aug. 7, 1969. 4 p.
- 13992 363. Amending act of June 13, 1962, with respect to Navajo Indian irrigation project. Report from Committee on Interior and Insular Affairs to accompany S. 203. Aug. 7, 1969. 8 p.
- 13993 369. To amend Small business investment act of 1958. Report from Committee on Banking and Currency to accompany S. 2540. Aug. 11, 1969. 3 p.
- 13994 370. Small Business Administration legislation for 1969. Report from Committee on Banking and Currency to accompany S. 2815. Aug. 11, 1969. 4 p.
- 13995 371. Modification of operation of Kortes unit, Missouri River Basin project, Wyo. Report from Committee on Interior and Insular Affairs to accompany S. 40. Aug. 11, 1969. 4 p.
- 13996 372. Amending act entitled act to authorize sale and exchange of isolated tracts of tribal land on Rosebud Sioux Indian Reservation, S. Dak. Report from Committee on Interior and Insular Affairs to accompany S. 73. Aug. 11, 1969. 4 p.
- 13997 373. Extension of temporary duty suspension on certain istle, temporary extension of interest equalization tax. Report from Committee on Finance to accompany H.R. 10107. Aug. 11, 1969. 4 p.
- 13998 374. Placing in trust status certain lands on Standing Rock Sioux Indian Reservation in North and South Dakota. Report from Committee on Interior and Insular Affairs to accompany S. 74. Aug. 11, 1969. 4 p.
- 13999 375. Conveying District property to Washington International School, Inc. Report from Committee on District of Columbia to accompany H.R. 12720. Aug. 11, 1969. 3 p.
- 14000 377. Amending act of Aug. 9, 1955, to authorize longer term leases of Indian lands located outside boundaries of Indian reservations in New Mexico. Report from Committee on Interior and Insular Affairs to accompany S. 1609. Aug. 12, 1969. 5 p.
- 14001 378. Amending Indian long-term leasing act. Report from Committee on Interior and Insular Affairs to accompany S. 204. Aug. 12, 1969. 8 p.
- 14002 379. Declaring that certain federally owned lands are held by United States in trust for Indians of Pueblo of Laguna. Report from Committee on Interior and Insular Affairs to accompany S. 210. Aug. 12, 1969. 7 p.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14003 380. Providing for disposition of judgement recovered by Confederated Salish and Kootanai tribes of Flathead Reservation, Mont., in par. 11, docket 50233, Court of Claims, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S. 1766. Aug. 12, 1969. 3 p.
- 14004 381. Compensating Indians of California for value of land erroneously used as offset in judgment obtained United States obtained by said Indians. Report from Committee on Interior and Insular Affairs to accompany H.R. 671. Aug. 12, 1969. 4 p.
- 14005 382. Declaring that certain federally owned land is held by United States in trust for Cheyenne River Sioux Tribe to Cheyenne River Indian Reservation. Report from Committee on Interior and Insular Affairs to accompany S. 921. [1969.] 5 p.
- 14006 383. Declaring that United States shall hold certain land in trust for Three Affiliated Tribes of Fort Berthold Reservation, N. Dak. Report from Committee on Interior and Insular Affairs to accompany S. 775. Aug. 12, 1969. 5 p.
- 14007 384. Providing for construction and improvement of certain road on Navajo Indian Reservation. Report from Committee on Interior and Insular Affairs to accompany S. 404. Aug. 12, 1969. 8 p.
- 14008 385. Establishing Buffalo National River. Report from Committee on Interior and Insular Affairs to accompany S. 855. Aug. 13, 1969. 6 p.
- 14009 386. Granting States reciprocal right to sue in District of Columbia courts to recover delinquent State taxes. Report from Committee on District of Columbia to accompany S. 2502. Aug. 13, 1969. 3 p.
- 14010 387. Amending survivor annuity provisions of District of Columbia judges retirement act of 1964. Report from Committee on District of Columbia to accompany S. 2056. Aug. 13, 1969. 8 p.

Aeronautical and Space Sciences Committee, Senate
Washington, DC 20510

- 14011 Future NASA space programs, hearing, 91st Congress, 1st session, Aug. 5, 1969. 1969. iv+70 p. il. † ● Item 1032-A
L.C. card 70-603614 Y 4.Ae 8: N 21 a/4

Aging, Special Committee on, Senate
Washington, DC 20510

- 14012 Health aspects of economics of aging, working paper in conjunction with overall study of Economics of aging, toward full share in abundance, July 1969; prepared by advisory committee. Revised [edition]. 1969. vi+43 p. il. (Committee print, 91st Congress, 1st session.) * Paper, 25c.
L.C. card 79-603524 Y 4.Ag 4: H 34/10
- 14013 Social security for the aged, international perspectives, working paper prepared [by George F. Rohrlach, professor of political economy and social insurance, Temple University School of Business Administration], for hearing, on International perspectives on economics of aging, Aug. 25, 1969; Aug. 1969. 1969. vii+14 p. (Committee print, 91st Congress, 1st session.) * Paper, 15c.
L.C. card 78-603521 Y 4.Ag 4: So 1

Agriculture and Forestry Committee, Senate
Washington, DC 20510

- 14014 FHA insured operating loans, hearings before Subcommittee on Agricultural Credit and Rural Electrification, 91st Congress, 1st session, on S. 815, July 29, 1969. 1969. iii+27 p. † ● Item 1032
L.C. card 79-603228 Y 4.Ag 8/2: L 78/9

Appropriations Committee, Senate
Washington, DC 20510

- 14015 Department of Interior and related agencies appropriations for fiscal year 1970, hearings before subcommittee, 91st Congress, 1st session, on H.R. 12781. † ● Item 1033
L.C. card 75-603602 Y 4.Ap 6/2: In 8/970/pt. (nos.)
pt. 1. [Mar. 11-21, 1969]. 1969. ii+1862+clxv p. il.
pt. 2. [Mar. 24-July 9, 1969.] 1969. ii+1863-3504+clxv p. il.

GOVERNMENT PUBLICATIONS

Armed Services Committee, Senate
Washington, DC 20510

- 14016 Nominations of Air Force Reserve general officers, hearing before Subcommittee on Reserve General Officer Promotions, 91st Congress, 1st session, on nominations for appointment in Air Force Reserve in grade of major and brigadier generals; Aug. 1, 1969. 1969. ii+13 p. † ● Item 1034
L.C. card 75-603357 Y 4.Ar 5/3: A1 7/7/969

Banking and Currency Committee, Senate
Washington, DC 20510

- 14017 Housing and urban development legislation of 1969, hearings before Subcommittee on Housing and Urban Affairs, 91st Congress, 1st session, on bills relating to housing and urban development, July 15-25, 1969. 1969. xi+596 p. il. † ● Item 1035
L.C. card 78-603355 Y 4.B 22/3: H 81/55/969
- 14018 Nominations of Thomas Hal Clarke and Carter L. Burgess, hearing, 91st Congress, 1st session on nominations of Thomas Hal Clarke to be member of Federal Home Loan Bank Board, and Carter L. Burgess to be incorporator of corporation authorized by sec. 902(a) of Housing and urban development act of 1968, July 28, 1969. 1969. iii+9 p. † ● Item 1035
L.C. card 74-603232 Y 4.B 22/3: C 54/2
- 14019 Small business legislation of 1969, hearings before Subcommittee on Small Business, 91st Congress, 1st session, on several bills and a resolution relating to small business, July 8-11, 1969. 1969. v+229 p. il. † ● Item 1035
L.C. card 70-603396 Y 4.B 22/3: Sm 1/20/969

Commerce Committee, Senate
Washington, DC 20510

- [Committee hearings] serial, 91st Congress. † ● Item 1041
Y 4.O 73/2: 91-(nos.)
- 14020 13. Airport/airways development, hearings before Subcommittee on Aviation, 91st Congress, 1st session, to determine appropriate course of Federal action for coming years in field of airport/airways development.
pt. 1. June 17-26, 1969. 1969. iv+445 p. il.
L.C. card 78-603398
- 14021 14. To amend Federal aviation act of 1958, hearings, 91st Congress, 1st session, on S. 1373, Mar. 18-26, 1969. 1969. iii+134 p.
L.C. card 74-603539

District of Columbia Committee, Senate
Washington, DC 20510

- 14022 Crime in National Capital, hearings, 91st Congress, 1st session.
pt. 2A. Drug abuse in Washington area, June 17, 1969. 1969. iii+387-466 p. il.
* Paper, 40c. ● Item 1036
L.C. card 76-601292 Y 4.D 63/2: C 86/4/969/pt.2 A
- 14023 Crime in National Capital, hearings before Committee on District of Columbia and Subcommittee on Improvements in Judicial Machinery of Committee on Judiciary, Senate, 91st Congress, 1st session, on S. 1066 [and other bills].
pt. 3. Reorganization of District of Columbia courts, May 19-Aug. 7, 1969. 1969. vi+467-1323+A-711 to A-742 p. * Paper, \$3.75. ● Item 1036
L.C. card 76-601292 Y 4.D 63/2: C 86/4/969/pt.3

Finance Committee, Senate
Washington, DC 20510

- 14024 Antidumping, report of President of United States on antidumping (for period July 1, 1968-June 30, 1969), pursuant to Public Law 90-634, sec. 201(b); Aug. 13, 1969. 1969. v+106 p. (Committee print, 91st Congress, 1st session.) * Paper, 45c.
L.C. card 74-603520 Y 4.F 49: An S/4

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14025 Interest equalization tax extension act of 1969, hearing, 91st Congress, 1st session, on H.R. 12829, Sept. 3, 1969. 1969. iii+117 p. † ● Item 1038
L.C. card 70-603641 Y 4.F 49: In 8/2/969
- 14026 Staff data relating to medicaid-medicare study, prepared by staff of Committee on Finance; July 1, 1969. 1969. iii+39 p. il. (Committee print, 91st Congress, 1st session.) [This document has not been reviewed by the Committee. It is published only for information.] ‡
L.C. card 76-602841 Y 4.F 49: M 46/5
- Tax reform act of 1969, H.R. 13270. 1969. (Committee print, 91st Congress, 1st session.)
- 14027 pt. A. Testimony to be received Tuesday, Sept. 16, 1969; pt. B, additional statements (Topics: Capital gains; restricted stock; lump-sum distributions under pension and profit-sharing plans). iii+342 p. il. * Paper, \$1.25.
L.C. card 74-603685 Y 4.F 49: T 19/26/Sept.16
- 14028 pt. A. Testimony to be received Thursday, Sept. 18, 1969; pt. B, additional statements (Topics: Charitable contributions; stock dividends; moving expenses). iii+366 p. il. * Paper, \$1.50.
L.C. card 78-603686 Y 4.F 49: T 19/26/Sept.18
- 14029 Statement of David M. Kennedy, Secretary of Treasury, Sept. 4, 1969. iii+93 p. * Paper, 40c.
L.C. card 70-603684 Y 4.F 49: T 19/26/Sept.4
- 14030 Testimony to be received Monday, Sept. 8, 1969 (Topics: General; single persons); Sept. 8, 1969. iii+237 p. ‡
L.C. card 77-603683 Y 4.F 49: T 19/26/Sept.8

Foreign Relations Committee, Senate
Washington, DC 20510

- 14031 Strategic and foreign policy implications of ABM systems, anti-submarine warfare, multiple independently targeted reentry vehicles (MIRV), hearings before Subcommittee on International Organization and Disarmament Affairs, 91st Congress, 1st session.
pt. 3. May 16 and July 16, 1969. 1969. iii+623-692 p. [Confidential hearing held May 16, 1969, sanitized and printed Aug. 27, 1969.] * Paper, 40c.
● Item 1039
L.C. card 72-601504 Y 4.F 76/2: An 8/2/pt.3

Government Operations Committee, Senate
Washington, DC 20510

- 14032 Donable surplus property program, hearings before Ad Hoc Subcommittee on Federal Surplus Property, 91st Congress, 1st session, July 9 and 10. 1969. 1969. iv+162 p. il. † ● Item 1037
L.C. card 70-603361 Y 4.G 74/6: Su 7/7/969
- 14033 Establish Commission on Government Procurement, hearing, 91st Congress, 1st session; July 31, 1969. 1969. iv+411 p. † ● Item 1037
L.C. card 70-603353 Y 4.G 74/6: G 74
- 14034 Establish Department of Consumer Affairs, hearings before Subcommittee on Executive Reorganization, 91st Congress, 1st session, on S. 860 and S. 2045, Mar. 17-July 16, 1969. 1969. v+826 p. il. map. † ● Item 1037
L.C. card 74-603642 Y 4.G 74/6: C 76/969
- 14035 Inventory of congressional concern with research and development, 90th Congress, 2d session, pt. 4, bibliography, prepared for Subcommittee on Government Research [by Science Policy Research Division of Legislative Reference Service, Library of Congress]; July 31, 1969. 1969. ix+205-249 p. il. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 67-60332 Y 4.G 74/6: R 31/2/pt.4
- 14036 Riots, civil and criminal disorders, hearings before Permanent Subcommittee on Investigations, 91st Congress, 1st session, pursuant to S. Res. 26, 91st Congress. ● Item 1037
L.C. card 68-60271 Y 4.G 74/6: R 47/pt.-(nos.)
pt. 19. June 18-25, 1969. 1969. ix+3721-4173 p. il. 3 pl. * Paper, \$2.50.
pt. 20. June 26 and 30, 1969. 1969. viii+4175-4498 p. il. 3 pl. * Paper, \$1.75.

GOVERNMENT PUBLICATIONS

- 14037 Staff study of campus riots and disorders, Oct. 1967-May 1969; [prepared by Daniel Harris and Joseph Honcharik of General Accounting Office for] Permanent Subcommittee on Investigations, June 1969. 1969. iii+52 p. (Committee print, 91st Congress, 1st session.) ‡ Y 4.G 74/6: R 47/3
L.C. card 76-602490
- 14038 Utility consumers' council act of 1969, hearings before Subcommittee on Intergovernmental Relations, 91st Congress, 1st session, on S. 607.
● Item 1037 Y 4.G 74/6: Ut 3/2/pt.-(nos.)
pt. 6A. June 26-July 9, 1969. 1969. xvi+1389-1664 p. * Paper, \$1.25.
pt. 6B. June 26-July 9, 1969. iv+1665-1802 p. il. * Paper, 55c.

Interior and Insular Affairs Committee, Senate Washington, DC 20510

- 14039 Acreage limitation amendments, hearing before Subcommittee on Water and Power Resources, 91st Congress, 1st session, on S. 2062 and S. 2072, July 18, 1969. 1969. iii+20 p. † ● Item 1040 Y 4.In 8/13: Ac 7/5
L.C. card 70-603617
- 14040 Annual meeting with directors of National Reclamation Association, memorandum of chairman to members of Committee on Interior and Insular Affairs; Feb. 26, 1969. 1969. v+36 p. il. (Committee print, 91st Congress, 1st session.) ‡ Y 4.In 8/13: N 21r/2
L.C. card 72-603308
- 14041 Buffalo National River, Ark., hearing before Subcommittee on Parks and Recreation, 91st Congress, 1st session, on S. 855, May 27, 1969. 1969. vii+192 p. map. † ● Item 1040 Y 4.In 8/13: B 86
L.C. card 71-603226
- 14042 Interior nomination, hearing, 91st Congress, 1st session, on nomination of Edward E. Johnston, of Hawaii, to be High Commissioner of Trust Territory of Pacific Islands, Apr. 30, 1969. 1969. ii+8 p. † ● Item 1040 Y 4.In 8/13: N 72/969-7
L.C. card 71-602230
- 14043 Interior nomination, hearing, 91st Congress, 1st session, on nomination of Louis R. Bruce of New York, to be Commissioner of Indian Affairs, Aug. 11, 1969. 1969. ii+14 p. † ● Item 1040 Y 4.In 8/13: N 72/969-8
L.C. card 77-603395
- 14044 Interior nominations, hearings, 91st Congress, 1st session, on nomination of Carlos Garcia Camacho, of Guam, to be Governor of Guam, and nomination of Melvin H. Evans, of Virgin Islands, to be Governor of Virgin Islands, June 17, 1969. 1969. ii+18 p. † ● Item 1040 Y 4.In 8/13: N 72/969-6
L.C. card 71-603356
- 14045 Navajo Indian irrigation project, hearing before Subcommittee on Water and Power Resources, 91st Congress, 1st session, on S. 203, July 15, 1969. 1969. iii+34 p. † ● Item 1040 Y 4.In 8/13: N 22/7
L.C. card 78-603371
- 14046 Oversight of oil development activities in Alaska, hearing before Special Subcommittee on Legislative Oversight, 91st Congress, 1st session, on Department of Interior's manpower and funding requirements and capability to oversee oil resource development activities on public lands in Alaska, Aug. 12, 1969. 1969. iii+32 p. † ● Item 1040 Y 4.In 8/13: A1 1/22
L.C. card 78-603600

Judiciary Committee, Senate Washington, DC 20510

- 14047 Crime in National Capital, hearings, pt. 3. See District of Columbia Committee, Senate.
- 14048 Electing the President, hearings before Subcommittee on Constitutional Amendments, 91st Congress, 1st session, on S.J. Res. 1 [and other bills], Jan. 23-May 2, 1969. 1969. viii+1053 p. † ● Item 1042 Y 4.J 89/2: P 92/11/969
L.C. card 73-603394

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 14049 Extent of subversion in campus disorders, hearings before Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws, 91st Congress, 1st session.
pt. 1. Testimony of Ernesto E. Blanco, June 19, 1969. 1969. iii+88 p. il. * Paper, 40c. ● Item 1042
L.C. card 79-603540 Y 4.J S9/2: C 15/pt.1
- 14050 Measures relating to organized crime, hearings before Subcommittee on Criminal Laws and Procedures, 91st Congress, 1st session, on S. 30 [and other bills], Mar. 18-June 4, 1969. 1969. viii+558 p. il. † ● Item 1042
L.C. card 77-603588 Y 4.J S9/2: C 86/10
- 14051 Proposed academic freedom protective act of 1969, hearing before Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws, 91st Congress, 1st session, on S. 1988, Aug. 5, 1969. 1969. iii+105+iv p. † ● Item 1042
L.C. card 73-603615 Y 4.J S9/2: Ac 1

Labor and Public Welfare Committee, Senate
Washington, DC 20510

- 14052 Allocations of Federal funds under 3 student assistance programs, college work-study program, national defense student loan program, and educational opportunity grants program for fiscal years 1969 and 1970; July 1969. 1969. v+209 p. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 76-602996 Y 4.L 11/2: St 9/5
- 14053 Coal mine health and safety, hearings before Subcommittee on Labor, 91st Congress, 1st session, on S. 355 [and other] bills.
pt. 4. Feb. 27-May 2, 1969. 1969. iii p. 12 p. of pl. [Plates are colored.] †
● 1043
L.C. card 70-601935 Y 4.L 11/2: C 63/2/pt.4
- 14054 Communicable disease control, hearing before Subcommittee on Health, 91st Congress, 1st session, on S. 2264 [and] S. 1622, June 30, 1969. 1969. iv+137 p. il. † ● Item 1043
L.C. card 77-603616 Y 4.L 11/2: C 73/3
- 14055 Enactments by 90th Congress concerning education and training, 2d session 1968 (with related presidential recommendations, legislative histories of bills, and digests of enactments); prepared [by Charles A. Quattlebaum], Legislative Reference Service, Library of Congress. June 1969. xiv+422 p. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 76-602998 Y 4.L 11/2: Ed 8/18/968
- 14056 Medical care facilities construction and modernization, hearings before Subcommittee on Health, 91st Congress, 1st session, on S. 2182 [and] H.R. 11102, June 12-19, 1969. 1969. vi+381 p. il. † ● Item 1043
L.C. card 77-603230 Y 4.L 11/2: M 46/12
- 14057 Medical library amendments of 1969, hearing before Subcommittee on Health, 91st Congress, 1st session, on S. 2549, S. 2239, and H.R. 11702, July 31, 1969. 1969. iv+237 p. il. † ● Item 1043
L.C. card 71-603601 Y 4.L 11/2: M 46/13

Nutrition and Human Needs, Select Committee on, Senate
Washington, DC 20510

NOTE.—The Select Committee on Nutrition and Human Needs was established as a select committee of the Senate by S. Res. 281 of the 90th Congress, 2d session, which was considered, amended, and agreed to July 30, 1968.

- 14058 Nutrition and human needs, hearings, 90th Congress, 2d session, and 91st Congress, 1st session. ● Item 1009
L.C. card 76-600776 Y 4.N 95: N 95/pt. (nos.)
- pt. 9. California, May 8 and 9, 1969. 1969. vi+2719-3155 p. [Hearings held in Los Angeles and San Francisco.] * Paper, \$1.75.
- pt. 10. SCLC and East St. Louis, May 14 and June 27, 1969. [1969.] iv+3157-3403 p. [Hearings held in Washington, D.C. and East St. Louis, Ill.] * Paper, \$1.00.
- pt. 11. Child nutrition and school food assistance, July 9-11, 1969. 1969. v+3405-3754 p. il. * Paper, \$1.50.

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 33

GOVERNMENT PUBLICATIONS

Post Office and Civil Service Committee, Senate Washington, DC 20510

- 14059 Census nomination, hearing, 91st Congress, 1st session, on nomination of George Hay Brown to be Director, Bureau of Census, Aug. 7, 1969. 1969. iii+14 p. † ● Item 1044
L.C. card 73-603351 Y 4.P 84/11: C 33/969

Public Works Committee, Senate Washington, DC 20510

[Committee publication] serial, 91st Congress.

- 14060 16. Oversight hearings on highway safety program, hearings before Subcommittee on Roads, 91st Congress, 1st session, on review of programs implementing requirements of Highway safety act of 1966 and S. 2399, June 24-July 1, 1969. 1969. iv+252 p. il. † ● Item 1045
L.C. card 77-603407 Y 4.P 96/10: 91-16
- 14061 Toward a national materials policy, report on proposed Commission on National Materials Policy; prepared by ad hoc committee originated by Legislative Reference Service, Library of Congress, at request of J. Caleb Boggs, Apr. 1969. 1969. vii+86 p. 1 pl. (Committee print, 91st Congress, 1st session.) †
L.C. card 72-602997 Y 4.P 96/10: M 41/3

Small Business, Select Committee on, Senate Washington, DC 20510

- 14062 Impact of crime on small business, 1969, hearings, 91st Congress, 1st session.
pt. 1. May 21-July 22, 1969. 1969. v+376 p. il. † ● Item 1049
L.C. card 70-603538 Y 4.Sm 1/2: C S6/3/969/pt.1

CONSUMER AND MARKETING SERVICE, Agriculture Dept. Washington, DC 20250

1970 acreage-marketing guides AMG (series).

- 14063 69. Winter vegetables and potatoes. Aug. 1969. 36 p. il. 4° † ● Item 1S-D
L.C. card 76-603317 A 88.26/4: 69
- 14064 Cotton quality, crop of 1968. Aug. 1969. cover title, [1]+4-62 p. il. 4° ([United States cotton quality report for ginnings] v. 42, no. 7; Cotton Division.) [Text on p. 2 of cover.] † Consumer and Marketing Service, Market News Section, Cotton Division, P.O. Box 17723, Memphis, TN 38117 A 88.11: 42/7
- 14065 Cotton quality, supply, disappearance, carryover, 1968-69. Sept. 1969. cover title, 12 p. 4° ([United States cotton quality report for ginning] v. 42, no. 8; Cotton Division.) [Text on p. 2 of cover.] † Consumer and Marketing Service, Market News Section, Cotton Division, P.O. Box 17723, Memphis, TN 38117 A 88.11: 42/8
- PMG (series).
- 14066 6. 1969 broiler marketing guide, supplement. [Sept. 1969.] 11 p. 4° † ● Item 1S-D
A 88.26/5: 6/snpp.

COPYRIGHT OFFICE, Library of Congress Washington, DC 20540

- 14067 Catalog of copyright entries, 3d series, v. 22. * Paper, \$50.00 a yr. (including semiannual issues for pts. 1-13); \$12.50 additional for foreign mailing. ● Item 797
L.C. card 6-635347 LC 3.6/5: v.22/pt. (nos.)
pt. 6. Maps and atlases, no. 2; July-Dec. 1968. 1969. ix+117-193 p. 4°

NOTE.—Part 6 also sold separately on subscription. * Paper, \$5.00 a yr., \$1.25 additional for foreign mailing; single copy, \$2.50.

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

OCTOBER 1969

- 14068 pt. 7-11A. Works of art, reproductions of works of art, scientific and technical drawings, photographic works, prints and pictorial illustrations, no. 2; July-Dec. 1968, 1969. ix+173-322 p. 4°

NOTE.—Parts 7-11A also sold separately on subscriptions. * Paper, \$5.00 a yr., \$1.25 additional for foreign mailing; single copy, \$2.50.

Circulars. † ● Item 802-A

LC 3.4/2: (nos.)

- 14069 2B. Selected bibliography on copyright. [Aug. 1969.] [2] p. 4°
 14070 14. New versions and reprints. [Aug. 1969.] 2 p. 4°
 14071 41. Choreographic works. [Oct. 1968.] 2 p. 4°
 14072 60. Copyright for books. [Aug. 1969.] 2 p.

COURT OF CLAIMS Washington, DC 20006

- 14073 [U.S. Court of Claims reports]; v. 186, cases decided in United States Court of Claims, Dec. 1, 1968-Feb. 28, 1969, with report of decisions of Supreme Court in Court of Claims cases; reported by Audrey Bernhardt, acting reporter. 1969. xvii+983 p. il. 4° * Cloth, \$5.75. ● Item 730
 L.C. card 11-11998 Ju 3.9: 186

CUSTOMS BUREAU, Treasury Dept. Washington, DC 20226

- 14074 Can you find it? [1969.] cover title, [12] p. il. 4° [Text on p. 2-4 of cover.] † ● Item 950 T 17.2: F 49
 14075 Customs hints for returning U.S. residents, know before you go. [1969.] [2]+24+[2] p. il. narrow 8° ([Office of Information and Publications.]) [Some illustration are colored.] * Paper, \$25.00 per 100; single copy, 35c. ● Item 950 T 17.2: C 96/3/969
 14076 115th set revised pages to Customs regulations through Aug. 1968. 1968 [published 1969]. [31] p. 4° [Includes amendments made by Treasury decisions 68-160 through 68-200. Issued in looseleaf form.] * Paper, \$9.00 (including basic book and revised pages for an indefinite period); \$3.00 additional for foreign mailing. ● Item 948-A T 17.9: 966/rev. pages 115
 14077 118th set revised pages to Customs regulations through Feb. 1969. [1969.] [34] p. 4° [Includes amendments made by Treasury decisions 69-1 through 69-55. Issued in looseleaf form.] * Paper, \$9.00 (including basic book and revised pages for an indefinite period); \$3.00 additional for foreign mailing. ● Item 948-A T 17.9: 966/rev. pages 118

DEFENSE DEPARTMENT Washington, DC 20301

- 14078 Annual historical summary: Defense Documentation Center [Cameron Station, Alexandria, Va.], July 1, 1966-June 30, 1967. Oct. 1, 1967. Cover title [52] p. il. 4° (RCS: DD-DSA(A) 216(L); Defense Supply Agency) ‡
 L.C. card 72-601626 D 7.1/10: 966-67
 14079 — Defense Documentation Center [Cameron Station, Alexandria, Va.], July 1, 1967-June 30, 1968. [1969.] cover title, iv+[1]+17+[2] p. il. 4° (RCS DD-DSA (A) 216 (L); Defense Supply Agency.) ‡
 L.C. card 72-601626 D 7.1/10: 967-68
 14080 21st annual report to Congress on National Industrial Reserve under public law 883, 80th Congress. Apr. 1, 1969. cover title, [4] leaves+40 p. il. 4° ‡
 L.C. card 50-60617 D 7.21: 969

ⓈFor Sale by Clearinghouse, U.S. Department of
 Commerce, Springfield, Va. 22151
 ●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 14081 Armed services vocational aptitude battery, high school counselors manual [with list of publications]. [Apr. 1968.] cover title, iv+44 p. il. ([Office of Assistant Secretary of Defense, Manpower and Reserve Affairs.]) [Pages ii and iv are blank, but no text is missing.] ‡
D 1.6/2: Ar 5
- Defense Supply Agency Manual DSAM (series). ● Item 314-A
D 7.6/8: (nos.)
- 14082 4130.2. Federal item identification guides (FIIG) improvement program procedures manual, Change 1. July 14, 1969. [4] p. 4° ([Army Dept.] AR 708-9, CH 1; [Navy Dept.] NAVSUP PUB 5001, CH 1; [Air Force Dept.] AFM 72-3, CH 1; [Marine Corps] MCO P4410.6B, CH 1.) [Issued in looseleaf form.] * Paper, 10c.
- 14083 4145.2, v. 1. Preservation, packaging, and packing of military supplies and equipment, Jan. 24, 1968, Change 1. Aug. 18, 1969. [56] p. il. 4° (Army Dept. technical manual 38-230-1; Navy Dept. publication NAVAIR 15-01-1; Air Force Dept. pamphlet AFP 71-4, v. 1; Marine Corps manual MCO P4030.31) [Issued in looseleaf form.] ‡
- 14084 7000.1. Accounting and finance manual, Change 23. Aug. 12, 1969. [274] p. 4° [Issued in looseleaf form.] ‡
- 14085 Federal item identification guide: Capacitors fixed, Sept. 6, 1968, Change 1. Aug. 29, 1969. [25] p. il. 4° (FIIG A010; Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 25c.
● Item 314-A D 7.6/4: C 17/ch.1
- 14086 — Junction boxes, Dec. 20, 1968, Change 2. July 11, 1969. [4] p. 4° (FIIG A061; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 10c. ● Item 314-A D 7.6/4: J 95/ch.2
- 14087 — Keys and pins, July 7, 1967, Change 2. Aug. 1, 1969. [13] p. 4° (FIIG A212; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form..] * Paper, 10c. ● Item 314-A D 7.6/4: K 52/ch.2
- 14088 — Lens, lighting, Dec. 20, 1968, Change 2. July 11, 1969. [4] p. 4° (FIIG A075; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] * Paper, 10c. ● Item 314-A D 7.6/4: L 54/ch.2
- 14089 — Lift trucks, fork, platform, and pallet, Aug. 1, 1969. cover title, [69] p. il. 4° (FIIG A085; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 60c. ● Item 314-A D 7.6/4: L 62/2
- 14090 — Medicaments, Aug. 1, 1969. cover title, [84] p. 4° (FIIG T002; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.00. ● Item 314-A D 7.6/4: M 46
- 14091 — Nuts, Aug. 30, 1968, Change 1. July 18, 1969. [24] p. il. 4° (FIIG A021; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 20c. ● Item 314-A D 7.6/4: N 95/ch.1
- 14092 — Ranges, electric, gas, and oil burning, Nov. 29, 1968, Change 2. July 11, 1969. [4] p. 4° (FIIG A050; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] * Paper, 10c. ● Item 314-A D 7.6/4: R 16/ch.2
- 14093 — Threaded fasteners, May 1, 1967, Change 3. July 18, 1969. [18] p. 4° (FIIG A003; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 20c. ● Item 314-A D 7.6/4: F 26/ch.3

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 14094 Federal supply classification listing of DoD standardization documents; July 1, 1969. [1969.] viii+531 p. 4° [Issued in looseleaf form. Supersedes index date May 1, 1968 and supplement dated May 1, 1969.] * Paper, \$12.00 (including basic book and supplementary material for an indefinite period); \$2.50 additional for foreign mailing. ● Item 314-G
L.C. card 67-1774 D 7.14/2: 969
- 14095 How new food products from industry are authorized for use by U.S. Armed Forces. [1969.] [1]+12 p. il. narrow 8° (Office of Assistant Secretary of Defense, Dept. of Defense Food Planning Board, Armed Forces Product Evaluation Committee, Chicago, Ill.) ‡ D 1.2: F 73
- 14096 Index of specifications and standards; July 1, 1969. [1969.] [Issued in loose-leaf form. Supersedes Index dated July 1, 1968 and Supplement dated May 1, 1969. * Paper, \$22.00 (including basic issues pts. 1 and 2. with cumulative bimonthly supplements for each part for an indefinite period): \$5.00 additional for foreign mailing. ● Item 314-G
L.C. card 67-1775 D 7.14: 969/pt.1,2
pt. 1. Alphabetical listing. viii+473 p. 4°
pt. 2. Numerical listing. ix+543+51 p. 4°
- 14097 Index of specifications and standards; July 1, 1969: pt. 2, Numerical listing, appendix (canceled documents). 1969. iv+203 p. 4° * Paper, \$2.50. ● Item 314-G
L.C. card 67-1775 D 7.14: 969/pt.2/app.
- 14098 Military assistance facts. May 1969. cover title, [1]+22 p. il. oblong 12° ([Office of Assistant Secretary of Defense, International Security Affairs.]) [Text on p. 2 of cover.] ‡ D 1.2: M 59/5/969
Military standard MIL STD (series). [Issued with perforations.] ‡
● Item 314-J D 7.10: (nos.)
- 14099 280A. Definitions of item levels, item exchangeability, models and related terms. July 7, 1969. [1]+ii+5 p. 4° (FMISC-0361.) [Supersedes MIL-STD-280, Apr. 4, 1956 and MIL-STD-243A, Aug. 31, 1964.]
- 14100 286B. Propellants, solid, sampling, examination and testing. Notice 1. July 15, 1969. [128] p. il. 4° (FSC 1376.)
- 14101 701G. Lists of standard semiconductor devices, notices 3. May 28, 1969. [29] p. 4° (FSC 5961.)
- 14102 858. Testing standard for personnel parachutes. June 26, 1969. [60] p. 4° [Supersedes MIL-P-6031, Mar. 22, 1950, and USAF bulletin 505, June 18, 1959.]
- 14103 864. Ground support equipment functional classification categories. July 3, 1969. iii+35+[1] p. 4° (FSC MISC.) [Supersedes Air Force Specification bulletin 507, July 19, 1962.]
- 14104 1221. Protective compounds (for personnel). June 16, 1969. vi+25 p. 4° (FSC 6850.)
- 14105 1222. Inorganic salts and compounds, analyzed reagent and reagent grade. June 5, 1969. xviii+89 p. 4° (FSC 6810.) [Issued with perforations.]
- 14106 1331. Parameters to be controlled for specification of microcircuits. Jan. 10, 1969. iii+17 p. il. 4° (FSC 5962.)
- 14107 1333. Alrcrew station geometry for military aircraft. June 2, 1969 vi+24+[2] p. il. 4° (FSC 1500.)
- 14108 1341(SA). Symbols for packages and containers for hazardous industrial chemicals and materials. June 20, 1969. v+19 p. il. 4° (FSC PACK.)
- 14109 1345(EC). Data, measurement, in support of maintenance, calibration and repair of electronic equipment. June 6, 1969. iv+22 p. il. 4° (FSC MISC.; Naval Electronic Systems Command, Navy.)
- 14110 1430. Spectacles, industrial. Feb. 20, 1969. v+8 p. il. 4° (FSC 4240.)
- 14111 1480A. Color codes for webbing, textile; manufacturers' identification. Dec. 13, 1968. (FSC 8305.) [Supersedes MIL-STD-1480, Mar. 15, 1968.]
- 14112 27829. Marker, self luminous, aircraft exit, spring pin mounted. Revised Mar. 6, 1969. 1 p. il. 4° (Fed. sup. class 9905.) [Issued with perforations.]
- 14113 MILSTRIP, military assistance program address directory, supp. 2 [Sept. 1, 1967]: Change 4A. June 1969. [16] p. 4° (DOD 4140.17-M: [Office of Assistant Secretary of Defense (Installations and Logistics).]) [Issued in looseleaf form.] * Paper, 15c. ● Item 314-A
D 7.6/4: M 59/supp.2/rev.-2/ch.4A

GOVERNMENT PUBLICATIONS

- 14114 MILSTRIP, Military assistance program address directory, supp. 2 [Sept. 1, 1967] : Change 4B. June 30, 1969. [5] p. 4° (DOD 4140.17-M; [Office of Assistant Secretary of Defense (Installations and Logistics).]) [Issued in looseleaf form.] * Paper, 10c. ● Item 314-A
D 7.6/4 : M 59/supp.2/rev.-2/ch.4B
- 14115 Real and personal property of Department of Defense, as of June 30, 1968. [1969.] [1]+vi+178 p. il. 4° (Office of Comptroller.) ‡
L.C. card 57-60984 D 1.2 : P 94/8/968

DISTRICT OF COLUMBIA Washington, DC 20004

- 14116 List of legal investments for trust funds in District of Columbia as of July 1, 1969. [1969.] ii+72 p. [Semiannual.] ‡ Office of Register of Wills and Clerk of Probate Court, Washington, D.C. ● Item 430-A
L.C. card 41-7391 DC 21.9 : 969-2

ECONOMIC DEVELOPMENT ADMINISTRATION, Commerce Dept. Washington, DC 20230

- 14117 Economic development districts under provisions of Public works and economic development act of 1965. Public Law 89-136, status as of July 1, 1968. [1968.] [1]+18 p. 4° (Office of Development Districts.) ‡
C 46.2 : Ec 7/4/968-2
- 14118 EDA, building communities with jobs. [June 1969.] 8 p. narrow 8° ‡
C 46.2 : C 73/3/969
- 14119 Selected Indian reservation program. Apr. 1969. [6] p. narrow 8° ‡
C 46.2 : In 2/4

ECONOMIC OPPORTUNITY OFFICE, Executive Office of the President Washington, DC 20506

- OEO pamphlets. ‡ ● Item S57-H-17 Pr Ex 10.23 : (nos.)
- 14120 4100-7. Me, [from children of Deep South comes a cry for help that cannot be ignored; text by Lea Heine; illustrations by Hattie Mae]. [1969.] 40 p. il. 4° ([Volunteers in Service to America.]) [Text on p. 2 of cover.]
- 14121 6130-4. If you're not ready for another baby. [July 1969.] [20] p. il. small 4° [Produced for Health Services Office, Community Action Program, by Carolina Population Center, Chapel Hill, N.C.]
- 14122 6172-1. Resources for the aging, an action handbook [with bibliography]. 2d edition, updated and revised, 1969. xli+224 p. oblong 12° ([Prepared for Community Action Program, Office of Economic Opportunity, by National Council on Aging, 315 Park Ave. S., New York, NY 10010, under contract OEO-2468. Illustrations on p. 2 of cover.])
L.C. card 74-603598

ECONOMIC RESEARCH SERVICE, Agriculture Dept. Washington, DC 20250

- Agricultural economic report
- 14123 99. 1966 supplement to costs of producing upland cotton in United States, 1964; [by I. R. Starbird and B. L. French]. [Sept. 1969.] iv+42 p. il. 4° * Paper, 40c. ● Item 42-C A 93.28 : 99/supp.966
- ERS (series).
- 14124 421. Preliminary economic analysis of Ozark gateway district. [Aug. 1969.] vi+48 p. il. 4° ‡ ● Item 42-I
L.C. card 70-603456 A 93.21 : 421
- ERS-foreign (series).
- 14125 248. Summary of United Kingdom, projected level of demand, supply, and imports of agricultural products, 1970, 1975, and 1980. [July, 1969.] [1]+vi+38 p. ‡ ● Item 76-G
L.C. card 79-603575 A 93.21/2 : 248
- 14126 Farm real estate market developments, CD-73. Aug. 1969. 36 p. il. 4° ‡ ● Item 42-A A 93.9/4 : 73

*For Sale by Superintendent of Documents
‡Distribution Made by Issuing Office
‡Official Use. Not Available

**EDUCATION OFFICE, Health, Education, and Welfare Dept.
Washington, DC 20202**

- 14127 Administration of Public laws 81-874 & 81-815 [as amended], 18th annual report of Commissioner of Education, June 30, 1968: pt. 1; [prepared by Division of School Assistance in Federally Affected Areas]. [1969.] viii+31 p. il. 4° (OE-22003-68, pt. 1.) [Text on p. 2 of cover.] * Paper, 45c. ● Item 460-A-22
L.C. card E 52-22 FS 5.222: 22003-68/pt.1
- 14128 — pt. 2 [Basic tables]. [1969.] iii+180 p. 4° (OE-22003-68, pt. 2) [Pages numbered 71, 77, and 169 are intentionally left blank.] * Paper, \$1.75. ● Item 460-A-22
L.C. card E 52-22 FS 5.222: 22003-68/pt.2
- 14129 Associate degrees and other formal awards below baccalaureate, 1967-68 [higher education]; by Mary Evans Hooper. [June 1969.] vi+118 p. 4° (OE-54045-68; National Center for Educational Statistics.) [Includes highlights and list of related NCES publications on p. 2 and 3 of cover.] * Paper, \$1.25. ● Item 460-A-54
L.C. card 75-602108 FS 5.254: 54045-68
- 14130 Can television really teach? [by Edward L. Palmer]. [1969.] [S] p. il. large 4° (OE-34044; [Bureau of Research]. [Reprinted from American education, Aug.-Sept. 1969.] * Paper, 20c. ● Item 460-A-34
FS 5.234: 34044
- 14131 Directory of educational information centers. [1969.] x+118 p. 4° (OE-12042.) [Prepared by System Development Corporation in performance of contract OEC-0-S-080346-2800.] * Paper, \$1.25. ● Item 460-A-12
L.C. card 75-603574 FS 5.212: 12042
- 14132 Education problems of handicapped in inner city, remarks by James E. Allen, jr., Assistant Secretary for Education and U.S. Commissioner of Education, before conference on Problems of education of children in inner city, jointly sponsored by President's Committee on Mental Retardation and Office of Education, Warrenton, Va., Aug. 11, 1969. [1969.] 11 leaves, 4° † FS 5.8: A1 53/5
- 14133 Electrical appliance serviceman (D.O.T. occupational code S27.281), suggested guide for training course [with list of textbooks and references]. [1969.] v+14 p. 4° (OE-87039; Bureau of Adult, Vocational, and Library Programs, Manpower Development and Training Program.) * Paper, 30c. ● Item 460-A-87 FS 5.287: 87039
- 14134 Electronics mechanic, entry (D.O.T. occupation code S28.281) suggested guide for training course [with list of textbooks and references]. [1969.] iv+14+[1] p. il. 4° (OE-87040; Bureau of Adult, Vocational, and Library Programs, Manpower Development and Training Program.) * Paper, 30c. ● Item 460-A-87 FS 5.287: 87040
- 14135 Foreign curriculum consultant program for American schools, colleges, and departments of education, 1970-71. [1969.] cover title, [3]+11 p. oblong 12° ([OE-14143; Institute of International Studies.]) † ● Item 460-A-14 FS 5.214: 14143
- 14136 It's Y.O.U.; [by Ellen Ferber]. [1969.] [7] p. il. large 4° (OE-37046.) [Reprinted from American Education, Aug.-Sept. 1969.] * Paper, 20c. ● Item 460-A-37 FS 5.237: 37046
- 14137 Let's be practical about reading; by Carl B. Smith. [1969.] [4] p. il. large 4° (OE-30022.) [Reprinted from American education, Aug.-Sept. 1969.] * Paper, 10c. ● Item 460-A-30 FS 5.230: 30022
- 14138 Library statistics of college and universities: Data for individual institutions, fall 1967; by Bronson Price. [June 1969.] v+346 p. 4° (OE-15203-67; National Center for Educational Statistics.) [Includes list of related NCES publications on p. 3 of cover.] * Paper, \$2.50. ● Item 460-A-15
L.C. card 75-603026 FS 5.215: 15023-67

GOVERNMENT PUBLICATIONS

- 14139 Mexican-Americans, handbook for educators [with guide to further reading]; by Jack D. Forbes. [1969.] [3]+34 p. 4° [Prepared by Far West Laboratory for Educational Research and Development.] * Paper, 45c.
● Item 461-A (Rev. 1965)
L.C. card 68-65232 FS 5.6/2: M 57
- 14140 New education: Promise and performance, address by James E. Allen, Jr., Assistant Secretary for Education and U.S. Commissioner of Education, before 53rd annual convention of American Federation of Teachers (AFL-CIO), Aug. 20, 1969, New Orleans, La. [1969.] 12 leaves, 4° †
FS 5.8: A1 53/6
- 14141 Recreation program leadership, suggested 2-year post high school curriculum [with list of texts and references]. [1969.] viii+87 p. il. 4° (OE-87042.) * Paper, \$1.00. ● Item 460-A-87 FS 5.287: 87042
- 14142 Research and training opportunities abroad for higher education programs in foreign language and area studies, 1970-71, authorized by Public law 87-256, Mutual educational and cultural exchange act of 1961 (Fulbright-Hays act), sec. 102(b) (6), and Public law 83-480, Agricultural trade development and assistance act of 1954, sec. 104(b) (2) and (3). [1969.] [3]+19 p. oblong 12° ([OE 14134-70]; Institute of International Studies.) [Illustration on cover. Earth against void of space as photographed by crew of Apollo 8.] † ● Item 460-A-14 FS 5.214: 14134-70
- 14143 Resumes of selected projects for handicapped children funded under P.L. 89-313, amendment to title I, ESEA and title 6-A, ESEA, fiscal year 1968. May 1969. iii+104 p. 4° (Bureau of Education for the Handicapped.) † ● Item 461 (Rev. 1965)
L.C. card 70-603676 FS 5.2: H 19/5/968
- 14144 Title 1 ESEA program guides numbers 44 and 45-A. Reprinted Aug. 1969. iv+19 p. 4° (OE-37047.) † ● Item 460-A-37 FS 5.237: 37047
- 14145 U.S. Office of Education, support of computer activities; by Andrew R. Molnar [and] Beverly Sherman. Jan. 1969. iii+210 p. (OE-12044.) * Paper, \$1.75. ● Item 460-A-12
L.C. card 75-603436 FS 5.212: 12044

EMPLOYMENT SECURITY BUREAU, Labor Dept. Washington, DC 20210

- 14146 Job market for engineers, scientists, technicians; [prepared by Renee L. Gallop]. July 1968. cover title, iv+27 p. il. 4° ([United States Employment Service.]) [Issued semiannually.] †
L 7.63/2: 968/2

ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Order or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, DC, 20310, Attention Publications Office.

- 14147 Albeni Falls Dam, Pend Oreille River, northern Idaho. May 1969. 1 sheet (with map on verso.) il. large 4° folded into narrow 8° size. (U.S. Army Engineer District, Seattle.) †
D 103.2: A1 1
- 14148 Annual fish passage report, Columbia River projects, Bonneville, The Dalles, John Day, McNary; Snake River project, Ice Harbor, Oreg. and Wash., 1968, prepared by Army Engineer Districts, Portland and Walla Walla. [1969.] cover title, [1]+vi+15+[4] p. il. 79 tabs. 27 pl. 4° ([Reports control symbol NPDPL-79]; North Pacific Division.) †
L.C. card 58-63332 D 103.27: 968

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

Coastal Engineering Research Center: Technical memorandum.

- 14149 27. Corrosion and protection of steel piling [with list of literature cited]; by Laverne L. Watkins. May 1969. v+52+[53] p. il. 4° [Abstract cards attached.] ‡ (Limited distribution), U.S. Army Coastal Engineering Research Center, 5201 Little Falls Road NW, Washington, DC 20016
D 103.42: 27
- 14150 Floods on South Fork of Eel River, Phillipsville to Garberville. June 1969. [1]+6+[1] p. il. (with map on verso), narrow 8° (U.S. Army Engineer District, San Francisco.) [Prepared by Humboldt County by Corps of Engineers from data in Flood plain information, South Fork Eel River, Phillipsville to Garberville, Humboldt County, Calif.] ‡
D 103.47/2: P 54
- 14151 Notes on sedimentation activities, calendar year 1967. Aug. 1968. cover title, iv+144 p. 4° [Prepared under auspices of Water Resources Council, Committee on Sedimentation.] ‡
L.C. card 68-62160 D 103.2: Se 2/967
- Port series. [Part 1 of Port series is prepared by Division of Ports, Maritime Administration, Commerce Dept., and part 2 by Port Facilities Branch, Board of Engineers for Rivers and Harbors.]
- 14152 15. Port of Jacksonville, Fla., pt. 2. Revised 1969. 1969. v+64 p. il. 3 maps 4°
* Paper, \$1.75. ● Item 340
L.C. card 70-603589 D 103.8: 15/2
- 14153 River highway for trade, the Savannah, canoes, Indian tradeboats, flatboats, steamers, packets, and barges, by Ruby A. Rahn; [M. L. Granger, editor]. June 1968. cover title, [3]+52+6+31 p. il. 4° ‡ U.S. Army Engineer District, Savannah, Corps of Engineers, Savannah, Ga.
L.C. card 79-603437 D 103.2: Sa 9
- 14154 Water resources development by U.S. Army Corps of Engineers in New York. Jan. 1, 1969. cover title, [4]+x+151 p. il. 2 pl. 4° (North Atlantic Division.) [Plates are colored.] ‡
L.C. card 76-602703 D 103.35: N 42 y

Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (price upon application).

Waterways Experiment Station: Technical reports. ‡

D 103.24/2: (nos.)

- 14155 H-69-9. Theoretics in design of proposed Crescent City Harbor tsunami model [with list of literature cited]; by G. H. Keulegan, J. Harrlon, M. J. Mathews. Army-MRC, Vicksburg, Miss., June 1969. [142] p. il. 4° [Sponsored by Army Engineer District, San Francisco.]
- 14156 H-69-10. Mechanics of flow from stratified reservoirs in interest of water quality [with selected bibliography]; by J. P. Bohan, J. L. Grace, jr. Army-MRC, Vicksburg, Miss., July 1969. [100] p. il. 4° [Sponsored by Army Engineer Districts, Savannah and Philadelphia.]

ENGRAVING AND PRINTING BUREAU, Treasury Dept.
Washington, DC 20226

- 14157 Brief history of Bureau of Engraving and Printing. [Jan. 1968.] 8 p. il. narrow 8° ‡
T 18.2: H 62/2/968

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION,
Commerce Dept., Washington, DC 20235

Climatography of United States no. 21 (series), Climatic summaries of resort areas. [Environmental Data Service.]

- 14158 3-1-[2]. White River Lakes, Ark. and Mo.; [by R. O. Reinhold]. Aug. 1969. [4] p. il. 4° * Paper, 10c. ● Item 273-B C 30.71/6: 3-1-2

☐For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- Climatography of United States 60-nos., Climates of States. (Environmental Data Service.) ● Item 273-B C 30.71/3:(nos.)
- 14159 9. Georgia [with bibliography; by] Horace S. Carter. June 1959, revised and reprinted June 1969. [1969.] 21 p. il. 4° * Paper, 20c.
- 14160 11. Illinois [with bibliography; by] Lawrence A. Schaaf. Aug. 1959, revised and reprinted June 1969. [1969.] 19 p. il. 4° * Paper, 20c.
- 14161 19. Massachusetts [with bibliography; by] Robert E. Lantzenheiser. Nov. 1959, revised and reprinted June 1969. [1969.] 19 p. il. 4° * Paper, 20c.
- 14162 23. Missouri [with bibliography; by] J. D. McQuigg. Nov. 1959, revised and reprinted June 1969. [1969.] 19 p. il. 4° * Paper, 20c.
- ESSA technical memorandum. (National Environmental Satellite Center.)
- 14163 NESCTM-16. Improvement of clear column radiance determination with supplementary 3.8u window channel; [by] William L. Smith. July 1969. iii+17 p. il. 4° * Paper, \$3.00. C 52.15/2: NESCTM-16
- ESSA technical report. (ESSA Research Laboratories: Earth Sciences Laboratories, Boulder, Colo.)
- 14164 ERL 123-ESL 6. Induction loop antennas for geomagnetic field variation measurements [with list of references]; by Wallace H. Campbell. June 1969. iii+63 p. il. 4° * Paper, 65c. † ● Item 208-B-7 C 52.15: ERL 123-ESL 6
- ESSA technical report. (ESSA Research Laboratories: Institute for Telecommunication Sciences, Boulder, Colo.) ● Item 208-B-7 C 52.15:(letters-nos.)
- 14165 ERL 120-ITS 84. Computer routines for synthesizing ground backscatter from three-dimensional raysets [with list of references; by] Judith J. Stephenson [and] T. M. Georges. July 1969. iii+109 p. il. 4° * Paper, \$1.00.
- 14166 ERL 121-ITS 85. Ground wave propagation in normal and ionized atmosphere [with list of references; by] J. Ralph Jöhler. July 1969. iv+64 p. il. 4° * Paper, 65c.
- 14167 ERL 124-ITS 87. Numerical maps of fBEs for solar cycle minimum [with list of references; by] M. Leftin, S. M. Ostrow. Aug. 1969. v+54 p. il. 4° * Paper, 60c.
- ESSA technical report. (ESSA Research Laboratories: Pacific Oceanographic Laboratories, Miami, Fla.) ● Item 208-B-7 C 52.15: ERL 118-POL(nos.)
- 14168 ERL 118-POL 3-1. Introduction to hydrodynamics and water waves: v. 1. Fundamentals; [by] Bernard Le Méhauté. July 1969. xxviii+503+[2] p. il. 4° * Paper, \$3.75.
- 14169 ERL 118-POL 3-2. Introduction to hydrodynamics and water waves: v. 2. Water waves theories; [by] Bernard Le Méhauté. July 1969. xx+[1]+507-725 p. il. 4° * Paper, \$2.00.
- ESSA technical report. (ESSA Research Laboratories, Space Disturbances Laboratory, Boulder, Colo.)
- 14170 ERL 119-SDL 10. Solar proton monitoring system [with list of references; by] G. W. Adams [and] L. R. Megill. Aug. 1969. iv+43 p. il. 4° * Paper, 50c. ● Item 208-B-7 C 52.15: ERL 119-SDL 10
- ESSA technical report. (National Environmental Satellite Center.)
- 14171 NESC-44. Processing and display experiments using digitized ATS-1 spin scan camera data [with list of references; by] M. B. Whitney, R. C. Doolittle, and B. Goddard. Apr. 1968. v+60 p. il. 4° * Paper, \$3.00. C 52.15: NESC-44
- 14172 Federal plan for upper air observations above 30 kilometers, fiscal years 1969-73; [prepared by Interdepartmental Committee for Applied Meteorological Research of Office of Federal Coordinator for Meteorological Services and Supporting Research]. July 1969. v+72 p. il. 4° [Another illustration on p. 2 of cover.] ‡ C 52.2: Up 6
- 14173 Institutes for Environmental Research scientific and technical publications, fiscal year 1967 [list]. July 1, 1968. viii+65 p. 4° (ESSA Research Laboratories, Scientific Documentation Division, Boulder, Colo.) [Title on cover is: Scientific and technical publications of Institute for Environmental Research.] ‡ C 52.21/4: 967
- 14174 Management information on ERL's scientific and technical publications, fiscal year 1967; prepared by Scientific Documentation Division, ESSA Research Laboratories, Boulder, Colo. Sept. 1968. [186] p. 4° ‡ C 52.21/5: 967

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14175 Management information on ERL's scientific and technical publications, fiscal year 1968; prepared by Scientific Documentation Division, ESSA Research Laboratories, Boulder, Colo. Dec. 1968. [185] p. 4° ‡
C 52.21/5: 968
- 14176 National Meteorological Center. [1969.] [6] p. il. oblong 24° ([ESSA/P1680023 1968.]) † ● Item 208-B-1
C 52.2: N 21 m
- 14177 Scientific and technical publications of ESSA Research Laboratories, fiscal year 1968 [list]. Oct. 1968. vi+65 p. 4° (Scientific Documentation Division, Boulder, Colo.) ‡
C 52.21/4: 968

**FEDERAL AVIATION ADMINISTRATION, Transportation Dept.
Washington, DC 20553**

- 14178 Acceptable methods, techniques, and practices: Aircraft alterations. 1965, reprinted May 1969. cover title, [1]+v+62 p. il. 4° ([Advisory circular] 43.13-2.) [Effective 1965. Includes Changes 1-6. Issued in looseleaf form. Cancels AC 43.201.] * Paper, \$2.00 (including basic book and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 431-F-6
TD 4.28: 969
- 14179 — Aircraft inspection and repair. 1965, reprinted May 1969. cover title, [1]+xiii+232 p. il. 4° (AC 43.13-1.) [Issued in looseleaf form. Cancels AC 43.201. This reprint incorporates changes 1 through 5.] * Paper, \$3.00. ● Item 431-F-7
TD 4.28/2: 969
- 14180 Airport design standards, general aviation airports, basic and general transport [with bibliography]. July 14, 1969. cover title, [46] p. il. 4° ([Advisory circular] AC 150/5300-6.) [Issued with perforations.] ‡
TD 4.8: Ai 7/14
- 14181 Current legal literature, Dec. 1967-Feb. 1968 [list]. [1968.] [3]+12 p. 4° (Office of Headquarters Operations, Library Services Division.) ‡
TD 4.17/4: 968/1
- 14182 Dulles international airport. [1969.] [8] p. il. ‡
TD 4.2: D 88
- 14183 FAA air traffic activity, fiscal year 1969; [prepared by Viola W. Patterson]. Aug. 1969. x+218 p. il. 4° (Information and Statistics Division, Office of Management Systems.) * Paper, \$1.75. ● Item 431-C-1
L.C. card 78-601630
TD 4.19: 969
- Federal aviation regulations. [Issued in looseleaf form.] † ● Item 431-C-13
TD 4.6: (nos.)
- 14184 pt. 121. Certification and operations: Air carriers and commercial operators of large aircraft, Change 33 [effective] July 11, 1969. [1969.] [14] p. 4° [Incorporates amendment 12147.]
- 14185 pt. 151. Federal aid to airports, Change 29 [effective] June 19, July 21, Sept. 7, 1969. [1969.] [20] p. 4° [Incorporates amendment 151-32, 151-33 and 151-34.]
- 14186 Federal aviation regulations, v. 6, Aug. 1969. [1969.] cover title, [261] p. il. 4° [Issued in looseleaf form.] * Paper, \$5.50 (including basic volume and supplementary materials for an indefinite period); \$1.50 additional for foreign mailing. ● Item 431-C-13
Includes—Part 91, General operating and flight rules—Part 93, Special air traffic rules and airport traffic patterns—Part 99, Security control of air traffic—Part 101, Moored balloons, kites, unmanned rockets and unmanned free balloons—Part 103, Transportation of dangerous articles and magnetized materials—Part 105, Parachute jumping.
TD 4.6/3: v.6
- 14187 1st annual national aviation system planning review conference, summary report. Apr. 1969. cover title, iv+59 p. 4° ‡
TD 4.31: 969
- Handbook.
- 14188 6170.1. Electronic equipment modification handbook, data handling equipment. Jan. 14, 1969. cover title, [440] p. il. 4° [Issued in looseleaf form. Cancels Handbook AFP 6620.1 Communications facilities and equipment modification handbook, data handling facilities and equipment, Jan. 1953.] ‡ ● Item 431-C-4
TD 4.8/2: 6170.1

GOVERNMENT PUBLICATIONS

- 14189 Military air traffic activity report, calendar year 1968; [prepared by Publication and Service Branch, Information and Statistics Division, Office of Management Systems]. [1969.] cover title, [1]+iv+46+[1] p. oblong 12° ‡ ● Item 431-C-1
L.C. card 72-603698 TD 4.19/4: 968

System package program NS-SPP (series). (National Airspace System Program Office.)

- 14190 68-2. NAS en route stage A system. Apr. 26, 1968. cover title, [228] p. il. 4° [Edge index, and how to use, on p. 4 of cover.] ‡ TD 4.30: 68-2

FEDERAL CREDIT UNIONS BUREAU, Health, Education, and Welfare Dept., Washington, DC 20201

- 14191 Development of Federal credit unions. [1969.] 2 leaves+9 p. 4° (FCU 549.) ‡ FS 3.302: D 49

FEDERAL EXTENSION SERVICE, Agriculture Dept. Washington, DC 20250

- 14192 4H reports to the nation. Jan. 1969. [1]+28 p. il. oblong 8° ‡
A 43.2: F 82/36/969

FEDERAL FIELD COMMITTEE FOR DEVELOPMENT PLANNING IN ALASKA Suite 400, 632 6th Avenue, Anchorage, AK 99501

NOTE.—The Federal Field Committee for Development Planning in Alaska was established by Executive Order 11182 of Oct. 2, 1964.

- 14193 Aggregate income model of semi-autonomous Alaskan economy [with bibliography]; prepared by Bradford H. Tuck. Anchorage, Alaska, 1967. [1]+iii+116 p. il. 4° [Text and other illustrations on p. 1 and 2 of cover. Errata, 1 p., was issued also.] ‡ Y 3.A1 1s/4: 2 Ec 7/2
- 14194 Alaska-Northwest Canada economic activities: pt. 1, Summary comparison of mining laws and oil and gas laws and practices with recommendations for policy; prepared by Charles F. Herbert. 1967. cover title, vii+168 p. il. 4° [Text on p. 2 of cover.] ‡ Y 3.A1 1s/4: 2 Ec 7/5/pt.1
L.C. card 78-603418
- 14195 — pt. 2, Analysis of regional, political, and communications aspects of Alaska-Canada development relations; prepared by George W. Rogers with Douglas N. Jones. Anchorage, Alaska, 1968. cover title, iv leaves+116 p. il. 4° [Text on p. 2 of cover.] ‡ Y 3.A1 1s/4: 2 Ec 7/5/pt.2
L.C. card 78-603418
- 14196 Alaska recreation & government policies [with bibliography]; prepared by Jerome R. Saroff. Anchorage, Alaska, 1967. cover title, iii+143 p. il. 4° [Text on p. 2 of cover.] ‡ Y 3.A1 1s/4: 2 R 24
L.C. card 70-603432
- 14197 Federal regulation of transportation in Alaska; prepared by Morris Chertkov. Anchorage, Alaska, Aug. 1967. cover title, i+47 p. 4° [Text on p. 2 of cover.] ‡ Y 3.A1 1s/4: 2 T 68/2
- 14198 Selected economic indicators, end fiscal 1967; prepared by Bradford H. Tuck. Anchorage, Alaska, July 1967. [1]+i+39 leaves, il. 4° ‡ Y 3.A1 1s/4: 2 Ec 7/3
- 14199 Subregional economic analysis of Alaska [with bibliography]; by Douglas N. Jones [and others]. 1968. cover title, xii+383 p.+5 leaves, il. 4° [Errata sheet was issued also.] ‡ Y 3.A1 1s/4: 2 Ec 7/4
L.C. card 70-603546
- 14200 Summary of Alaskan industries by standard industrial classification and corporate classification; prepared by Roger A. Bye. [1968.] cover title, il. 4° ‡ FP 1.30: 968
L.C. card 75-603854

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 14201 Westward Alaska, native economy and its resource base [with list of publications and other sources cited]; prepared by John D. Abramson, 1968. cover title, [1]+vii+209 p. il. 4° ‡
L.C. card 74-601743 Y 3.A1 1s/4: 2 W 52

FEDERAL HOME LOAN BANK BOARD
Washington, DC 20552

- 14202 Federal Savings and Loan Insurance Corporation, financial statements, June 30, 1969. [1969.] [6] p. il. narrow 8° ‡ FHL 1.2: F 31/2/969-2
14203 Report of Federal Home Loan Bank Board for year ending Dec. 31, 1968, [covering operations of] Federal Home Loan Bank System, Federal Savings and Loan Insurance Corporation, Federal Savings and Loan System. [1969.] xiii+141 p. il. ‡ ● Item 595
L.C. card 34-26236 FHL 1.1: 968

FEDERAL HOUSING ADMINISTRATION, Housing and Urban Development Dept., Washington, DC 20411

- 14204 Failure of floor tile systems, investigation [with bibliography]; by B. D. Spangler. Dec. 1968 [published 1969]. [1]+ii+27+[2] p. il. 4° [Prepared for Technical Studies Program. This does not constitute revision to FHA minimum property standards.] ‡ ● Item 589 HH 2.2: F 65
14205 Manufactured housing, technically suitable for FHA mortgage insurance. [1969.] cover title, [224] p. il. 4° (FHA 106.) [Issued with perforations.] * Paper, \$1.75. ● Item 589 HH 2.2: M 31
14206 Minimum property standards for multifamily housing. June 1969. cover title, [3]+511 p. il. 4° ([FHA 2600.]) [Reprinted to include general revisions M 1 through M 12. Issued in looseleaf form.] * Paper, \$2.50. ● Item 593 HH 2.17/3: M 91/969
14207 Mortgagees' handbook [new and revised pages: July 1969]. [1969.] [51] p. ([35-17.]) [Includes transmittal memorandum 17. Issued in looseleaf form.] ‡ HH 2.6/6: M 84/962/trans.17

FEDERAL MARITIME COMMISSION
Washington, DC 20573

FMC SP (series). ‡

FMC 1.9: (nos.)

- 14208 69-10. Remarks by John Harilee, Chairman, Federal Maritime Commission, to Executive Committee of Navy League, Colorado Springs, Colo., Aug. 16, 1969. [1969.] 11 p. 4°
14209 69-11. Remarks by H. B. Mutter, Deputy Solicitor, Federal Maritime Commission, before Federal Bar Association convention, Council for Transportation Law Program, Miami Beach, Fla., Sept. 4, 1969. 1969. 9 p. 4°
14210 69-12. Remarks of Commissioner George H. Hearn, of Federal Maritime Commission, at annual convention of Federal Bar Association before Council for Transportation Law, Miami Beach, Fla., Sept. 4, 1969. [1969.] 11 p. 4°
14211 69-13. Regulatory problems affecting inter-American transportation, remarks by James E. Mazure, Acting Managing Director, Federal Maritime Commission before Federal Bar Association Convention, Council for Transportation Law Program, Miami Beach, Fla., Sept. 4, 1969. [1969.] 8 p. 4°

FEDERAL POWER COMMISSION
Washington, DC 20426

- 14212 Cost of pipeline and compressor station construction under non-budget type of certificate authorizations as reported by pipeline companies in fiscal year 1968, (July 1, 1967-June 30, 1968). May 1969. [3]+iv+36 p. il. 4° ‡
L.C. card 75-603854 FP 1.30: 968
14213 Federal Power Commission reports, v. 34, Mar. 18, 1969, errata notice. Mar. 18, 1969. 1 p. ‡ ● Item 438 FP 1.20: 34/errata

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$12.50 a year, \$4.25 additional for foreign mailing; single copy, 25c.

- 14214 Arizona, July 1969. [2]+10 p. 4° [Supersedes issue of Oct. 1968.] ● Item 437-A-2 FP 1.18: Ar 4 i/969
- 14215 Colorado, June 1969. [2]+14 p. 4° [Supersedes issue of Oct. 1968.] ● Item 437-A-5 FP 1.18: C 71/969
- 14216 Connecticut, July 1969. [2]+8 p. 4° [Supersedes issue of Sept. 1968.] ● Item 437-A-6 FP 1.18: C 76/969
- 14217 Idaho, July 1969. [2]+8 p. 4° [Supersedes issue of Aug. 1968.] ● Item 437-A-10 FP 1.18: Id 1/969
- 14218 Nevada, July 1969. [2]+6 p. 4° [Supersedes issue of Oct. 1967.] ● Item 437-A-26 FP 1.18: N 41/969
- 14219 New Mexico, July 1969. [2]+11 p. 4° [Supersedes issue of Sept. 1968.] ● Item 437-A-29 FP 1.18: N 42 m/969
- 14220 North Carolina, July 1969. [2]+27 p. 4° [Supersedes issue of Sept. 1968.] ● Item 437-A-31 FP 1.18: N 81 c/969
- 14221 Oklahoma, July 1969. [2]+19 p. 4° [Supersedes issue of Oct. 1968.] ● Item 437-A-34 FP 1.18: Ok 4/969
- 14222 Publications list, Aug. 1969. [1969.] 4 p. 4° † FP 1.26: 969-2

FEDERAL RAILROAD ADMINISTRATION, Transportation Dept. Washington, DC 20591

- 14223 Published reports by Office of High Speed Ground Transportation and Northeast Corridor Transportation Project, Department of Transportation. [Mar. 1969.] [2]+17+[6] p. 4° † TD 3.12: H 53/2

FEDERAL REGISTER OFFICE, General Services Administration Washington, DC 20408

- 14224 United States Government organization manual, 1969-70. Revised July 1, 1969. [1969.] viii+805 p. il. [Includes Constitution of United States with amendments. Revised annually. Margin index and instructions for use on p. 4 of cover.] * Paper, \$3.00. ● Item 577 L.C. card 35-26025 GS 4.109: 969

FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS Washington, DC 20551

- 14225 Banking and monetary statistics, 1968. [1969.] 16 p. 4° [Reprinted from Federal reserve bulletin, Feb. & Mar. 1969.] † FR 1.3/a: B 225/14/968
- 14226 Changes in time and savings deposits, Jan.-Apr. 1969; [by Caroline H. Cagle]. [1969.] p. 581-590, il. 4° [Reprinted from Federal reserve bulletin, July 1969.] † FR 1.3/a: D 441/11/969
- 14227 Education and economic advancement of minority groups in United States, remarks by Andrew F. Brimmer, Member, Board of Governors of Federal Reserve System, before annual convention of Phi Epsilon Pi Fraternity, Miami Beach, Fla., Aug. 28, 1969. [1969.] [1]+25 p. 4° † FR 1.23: B 77/47
- 14228 Errata to Truth in lending interpretations of regulation Z. [1969.] 1 p. oblong 24° † FR 1.2: T 77/2/errata
- 14229 Financial developments in 2d quarter of 1969. [1969.] p. 633-641, il. 4° [Reprinted from Federal reserve bulletin, Aug. 1969.] † FR 1.3/a: F 49/13
- Regulation (series). † FR 1.6: (letters)
- 14230 D. Reserves of member banks, amendment, effective Sept. 4, 1969. [1969.] 1 p.
- 14231 D. [Reserves of member banks], sec. 204.5, supplement, effective Sept. 4, 1969. [1969.] [2] p.
- 14232 M. Foreign activities of national banks, amendment, effective Sept. 4, 1969. [1969.] [2] p.
- 14233 Z. Truth in lending, amendment, effective Aug. 11, 1969. [1969.] [2] p. 4°

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14234 Revision of weekly series for commercial banks. [1969.] [1]+641-646 p. 4°
[Reprinted from Federal reserve bulletin, Aug. 1969.] ‡
FR 1.3/a: B 225/22

FEDERAL SUPPLY SERVICE, General Services Administration
Washington, DC 20405

- 14235 Federal specifications. ● Item 563. GS 2.8:

NOTE.—These specifications are completely covered by the index of Federal specifications and standards. Individual specifications are not listed in the Monthly Catalog.

Index of Federal specifications and standards, January 1, 1969, with cumulative supplements as issued (GS 2.8/2: 969) is sold by the Superintendent of Documents on a subscription basis at \$3.00 a yr.; 75c. additional for foreign mailing.

Federal standards. Issued with perforations. ● Item 563

GS 2.8/3:(nos.)

NOTE.—Federal standards may be purchased from the General Services Administration, Specifications Activity, Special Programs Division, Building 197, Naval Weapons Plant, Washington, DC 20407.

All checks and money orders should be made payable to the Treasurer of the United States. Single copies are available without charge at the nearest GSA regional office.

- 14236 26SB. Stepladders, May 16, 1969. [1969.] 4 p. 4° (FSC 5440.) [RR-S-00720 and LLL-S-710, issues in effect. Supersedes Fed. Std. 26Sa, Jan. 23, 1968.] ‡ Paper, 10c.
- 14237 293. Tape, pressure sensitive adhesive, May 8, 1969. [1969.] 4 p. 4° (PSC 8030.) ‡ Paper, 10c.

FEDERAL TRADE COMMISSION
Washington, DC 20580

Consumer bulletin.

- 14238 2. Unordered merchandise, shipper's obligations and consumer's rights. [1969.] [3] p. * Paper, 10c. ● Item 533-A FT 1.3/2:2

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION,
Interior Dept., Washington, DC 20242

- 14239 Clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, San Francisco, Calif., Feb. 18-19, 1969. [1969.] v. 1, cover title, [1]+vi+320 p.+[2] leaves, il. 4° (Pacific Southwest Region, San Francisco, Calif.) ‡
L.C. card 70-603692 I 67.2: Es 8/3/969/v.1
- 14240 Conference [on] pollution of interstate waters of Lake Champlain and its tributary basin, New York, Vermont, proceedings, Nov. 13, Burlington, Vt., Dec. 19-20, 1969, Boston, Mass. [with bibliography]. [1969.] cover title, 416 p. il. 4° ‡ ● Item 473-A-1
L.C. card 75-603444 I 67.2: C 35
- 14241 Conference [on] pollution of Lake Michigan and its tributary basin, Illinois, Indiana, Michigan, and Wisconsin, 2d session, Feb. 25, 1969, Chicago, Ill., proceedings. [1969.] ‡ ● Item 437-A-1
L.C. card 73-603457 I 67.2: M 58/6/969/v.1-2
v. 1. cover title, [3]+2-364 p. il. 4°
v. 2. cover title. [1]+365-968 p. il. 4°
- 14242 Current list of water publications, Robert A. Taft Sanitary Engineering Center, 1965-68. [1969.] [1]+21 p. 4° [Up to date as of Dec. 13, 1968.] ‡ Office of Information, Ohio Basin Region, Federal Water Pollution Control Administration, Cincinnati, OH 45226 I 67.14: W 29/2/965-968
- 14243 General background on mineral pollution problem in Colorado River Basin. Jan. 1968. cover title, [3]+31 leaves il. 4° (Southwest Region, San Francisco, Calif.; Colorado River Basin Water Quality Control Project, Denver, Colo.) ‡ I 67.2: C 71/2
- 14244 Report of Water Quality Sub-Task Force on Project Potomac. [Feb. 1, 1967.] [7]+57 p. 4° ‡
L.C. card 71-603435 I 67.2: P 84/2

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Robert A. Taft Water Research Center: Report TWRC-(series).

- 14245 1. Dilute solution reactions of nitrate ion as applied to water reclamation [with list of references] : by Frank C. Gunderloy, jr. [and others]. Oct. 1968. vi+67 p. 4° ([Advanced Waste Treatment Laboratory-1.]) [Report is submitted in fulfillment of contract 14-12-52 by Rocketdyne, Division of North American Rockwell Corporation.] ‡ Office of Information, Ohio Basin Region, Federal Water Pollution Control Administration, 4676 Colombia Parkway, Cincinnati, OH 45226 I 67.19:1

FLIGHT STANDARDS SERVICE, Transportation Dept. Washington, DC 20553

- 14246 General aviation inspection aids, summary, Aug. 1969. [1969.] cover title, vi+138 p. il. 4° ([Advisory circular] AC 20-7F.) [Text and another illustration on p. 2-4 of cover. Issued with perforations.] * Paper, \$3.00 (including basic manual and 11 monthly supplements) ; 75c. additional for foreign mailing. ● Item 431-C-6 TD 4.409: 969

FOOD AND DRUG ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201

- 14247 Selected technical publications, July-Dec. 1968, Food and Drug Administration, [no. 8; with bibliographies]. [1969.] cover title, vi+503 p. il. 4° † ● Item 475 FS 13.102: T 22/no.8

FOREST SERVICE, Agriculture Dept. Washington, DC 20250

- 14248 Animal damage control. [1969.] [2] p. il. 4° (Pacific Northwest Forest and Range Experiment Station, Forestry Sciences Laboratory, Olympia, Wash.) ‡ A 13.66/2: An 5
- 14249 Annual report of research at Forest Products Laboratory FPL '68. [1969.] cover title, iv+36 p. il. 4° [Includes list of FPL publications issued in 1968.] † L.C. card 67-60181 A 13.27/1: 968
- 14250 Big-game habitat. [1969.] [2] p. il. 4° (Pacific Northwest Forest and Range Experiment Station, Range and Wildlife Habitat Laboratory, LaGrande, Oreg.) ‡ A 13.66/2: B 48
- 14251 Bridger National Forest. [Wyo.]. [1968.] 1 sheet (with map on verso) il. oblong 1° folded in narrow 8° size. (Intermountain Region, Ogden, Utah.) ‡ A 13.13: B 76
- 14252 Camping & picnicking in Eldorado National Forest. 1969. [3]+23+[2] p. il. (California [region].) † A 13.2: E1 2/969
- 14253 Camping & picnicking in Tahoe National Forest. [1969.] [2]+22 p. il. (California [region].) † A 13.2: T 13
- 14254 Christmas tree directory, Oregon and Washington growers, wholesalers and retailers, 1969. [1969.] cover title, [1]+32 p. il. 4° (Pacific Northwest Region.) [Text on p. 2 and page 32 on p. 3 of cover.] ‡ A 13.2: C 46/2/969
- 14255 Cle Elum trail trips on Cle Elum ranger district, Wenatchee National Forest. [1969.] cover title, [1]+11 p. il. (Pacific Northwest Region.) [Text on p. 3 of cover.] † A 13.13: C 58/2
- 14256 Conservation in your life, services to educators. [1968.] cover title, [8] p. il. oblong 24° (California [Region].) [Text on p. 2-4 of cover.] ‡ A 13.2: C 76/16
- 14257 Discussion of grazing management systems and some pertinent literature (abstracts & excerpts) 1895-1966; [compiled by] Wayne C. Hickey, jr. Denver, Colo., [1969.] [370] p. il. 4° ‡ L.C. card 70-603535 A 13.2: G 79/13/895-966

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

†Official Use. Not Available

- 14258 Dividends from wood research, recent publications of Forest Products Laboratory, Jan. 1-June 30, 1969. [1969.] cover title, 12 p. il. narrow 8° † A 13.27/7: W 85/15/969
[Equipment development & test report] ED&T (series). ‡ A 13.49/4: (nos.)
- 14259 923. Equip tips: Bracket for light helicopter cargo hooks. July 1969. 2 p. il. 4° (Equipment Development Center, San Dimas, Calif.)
- 14260 1423. Equip tips: Faucets for recreation sites. Feb. 1969. 4 p. il. 4° (San Dimas Equipment Development Center.) [Issued with perforations.]
- 14261 1701. Equip tips: Air-to-ground warning device. July 1969. 3 p. il. 4° (Equipment Development Center, San Dimas, Calif.)
- 14262 Flaming Gorge National Recreation area. [1969.] 1 sheet (with map on verso) il. oblong f° folded into narrow large 8° size. (Ashley National Forest.) [Prepared in cooperation with Reclamation Bureau, Interior Dept. Map and illustrations are colored.] † A 13.13: F 61/3
Forest pest leaflet.
- 14263 44. Brown-spot needle blight of longleaf pine [with list of references]; by Paul C. Lightle. Apr. 1960, slightly revised July 1969. [1969.] 7 p. il. † A 13.52: 44/2
● Item 82-A
- 14264 Grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range; by Floyd W. Pond. [1969.] [2]+14 p. il. oblong 24° (Rocky Mountain Forest and Range Experiment Station.) † A 13.69/2: G 79
- 14265 Guide to forest of ancient bristlecone pines, Inyo National Forest, Calif. 1969. 1 sheet (map on verso) f°, folded into narrow 8° size. † A 13.13: In 8/969
- 14266 1968 Hemlock looper project, Mt. Baker National Forest, Wash. [with bibliography]; by Jack Mounts, Leon F. Pettinger, John Wortendyke. June 1969. [3]+23 p. il. 4. (Insect and Disease Control Branch, Division of Timber Management, Pacific Northwest Region.) † A 13.2: H 37/968
- 14267 Intensive culture of Douglas fir. [1969.] [2] p. il. 4° (Pacific Northwest Forest and Range Experiment Station, Forestry Sciences Laboratory, Olympia, Wash.) † A 13.66/2: D 74/3
- 14268 Kanikou National Forest, Priest Lake recreation area. [1969.] 1 sheet (with map on verso.) il. f° folded into 8° size. † A 13.13: P 93
- 14269 Management direction, wilderness and primary recreation zones of National Forests in Oregon Cascades. [1969.] [1]+iii+42 p. il. 1 map in pocket, 4° (Pacific Northwest Region.) [Map is colored.] † A 13.2: M 31/7
- 14270 Map of vehicle control area and rules for vehicle use in this area of Eldorado National Forest. May 1, 1969. 1 sheet, (with map on verso), il. f°, folded into 4° size. † A 13.13: El 8/4
- 14271 Mt. St. Helens-Spirit Lake, Gifford Pinchot National Forest. [1969.] [2] p. il. oblong f°, folded into narrow 8° size. ([Pacific Northwest Region.]) [One illustration is colored.] † A 13.13: M 86 sa
- 14272 National forests in Colorado. [1969.] [24] p. il. (Rocky Mountain Region.) † A 13.2: C 71/3
- 14273 National forests in profile, 1968 yearbook, Intermountain Region, Forest Service, Department of Agriculture, Ogden, Utah. [1969.] cover title, [24] p. il. 4. † A 13.57: 968
L.C. card 63-60296
- 14274 National forests in Wyoming. [1969.] [20] p. il. (Rocky Mountain & Intermountain Regions.) † A 13.2: W 99
- 14275 Ochoco National Forest and Crooked River National Grassland. [1969.] [2] p. il. oblong f° folded into narrow 8° size. ([Pacific Northwest Region.]) [Some illustrations are colored.] † A 13.13: Oc 3/2/969
- 14276 Olympic National Forest, 1968. [Olympia, Wash., 1969.] cover title, [16] p. il. 4° [Text on p. 2-4 of cover.] † A 13.13/2: O19/968

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 49

GOVERNMENT PUBLICATIONS

- 14277 Public campgrounds on San Bernardino National Forest, general information. Apr. 1, 1969. [S] p. 4° ‡ A 13.2: Sa 5 b
- 14278 Range ecology and management. [1969.] [2] p. il. 4° (Pacific Northwest Forest and Range Experiment Station, Range and Wildlife Habitat Laboratory, LaGrande, Oreg.) ‡ A 13.66/2: R 16
- 14279 Range environmental management. [Revised Feb. 1969.] [1969.] [2] p. il. 4° (Pacific Northwest Forest and Range Experiment Station, Range and Wildlife Habitat Laboratory, LaGrande, Oreg.) ‡ A 13.66/2: R 16/2
- 14280 Recreation map, Palisades Reservoir, Caribou Targhee Bridger National Forests. [1967.] 1 sheet (map on verso) il. oblong f° folded into narrow 8° size. ‡ A 13.13: P 17
- Research note RM-(series). (Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colo.) ‡ A 13.79: RM-(nos.)
- 14281 RM-138. Aspen grove use by deer, elk, and cattle in southwestern coniferous forests; [by] Hudson G. Reynolds. 1969. 4 p. il. 4°
- 14282 RM-139. Deer and elk use of Ponderosa pine forest in Arizona before and after timber harvest [with list of literature cited; by] David R. Patton. 1969. 7 p. il. 4°
- 14283 RM-140. Selective control of brush on chaparral watersheds with soil-applied fenuron and picloram [with list of literature cited; by] Edwin A. Davis and Charles P. Pase. 1969. 4 p. 4°
- 14284 RM-141. Response of deer to alternate-strip clearcutting of lodgepole pine and spruce-fir timber in Colorado; [by] O. C. Wallmo. 1969. 4 p. il. 4°
- 14285 RM-142. Assimilation chamber for outdoor measurements of photosynthesis of tree seedlings; [by] Frank Ronco. 1969. 4 p. il. 4°
- 14286 RM-143. Assimilation chamber for measuring carbon dioxide exchange of tree seedlings in laboratory; [by] Frank Ronco. 1969. 7 p. il. 4°
- 14287 RM-144. Estimating defoliation of Douglas-fir and white fir by western budworm; [by] M. E. McKnight. 1969. 3 p. il. 4°
- 14288 RM-145. In vitro digestibility of alpine forages in Wyoming [with list of literature cited; by] Dixie R. Smith. 1969. 3 p. 4°
- Research paper RM-(series). (Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colo.) ‡ A 13.78: RM-(nos.)
- 14289 RM-47. Major insect pests in North Dakota shelterbelts, abundance and distribution by climate and host age [with list of literature cited]; by Patrick C. Kennedy and Louis F. Wilson. 1969. [2]+12+[1] p. il. 4°
- 14290 RM-48. Classification outline for snow on ground [with list of recommended reading]; by R. A. Sommerfeld. 1969. [3]+24 p.+[2] leaves
- 14291 RM-49. Here's how, guide to tree planting in Southwest; [by] Gilbert H. Schubert, Robert W. Pearl, and L. J. Heldmann]. [1969.] cover title, [14] p. il. [Text on p. 2-3 of cover.]
- 14292 Snoqualmie National Forest, 1968 letter to stockholders. [1969.] cover title. 24 p. il. 4° [Text on p. 2 and 3 of cover.] ‡ A 13.13/2: Sn 5/968
- 14293 Starting a community forest. Revised 1968. [1969.] 4 p. 4° ‡ A 13.2: C 73/13
- 14294 Suggestions for integrating forestry in modern curriculum. [Revised Sept. 1968.] [1969.] [4] p. 4° (FS-62; Conservation teaching aid.) ‡ A 13.72: C 93
- 14295 Surveillance report, 1965 Burns Project, Douglas-fir tussock moth control [Malheur and Ochoco National Forests]; by Glenn L. Crouch and Randall F. Perkins. Aug. 1968. [3]+20 p. il. 4° (Insect and Disease Control Branch, Division of Timber Management, Pacific Northwest Region.) ‡ A 13.2: D 74/3/965
- 14296 Thinning program for Malheur National Forest, proposed pre-commercial thinning program with discussion of costs and benefits [with bibliography; by] Randall F. Perkins, Ernest B. Wright, jr. Nov. 1967. [1]+ii+13 p. il. 4° (Pacific Northwest Region.) [Page 13 on p. 3 of cover.] ‡ A 13.2: T 34/3
- 14297 Wheeler Peak scenic area, Humboldt National Forest. [1968.] 1 sheet [with map on verso.] il. oblong f° folded into narrow large 8° size. (Intermountain Region, Ogden, Utah.) ‡ A 13.13: W 56
- 14298 1968 wildfire statistics [calendar year 1968]; prepared by Division of Cooperative Forest Fire Control. [1969.] vi+48 p. il. 4° ‡ A 13.32/2: 968
L.C. card 78-603757

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14299 Willamette 1968, national forest and national wilderness preservation system, annual public report of Willamette National Forest; [by Samuel T. Frear]. [1969.] cover title, 24 p. il. 4° [Text, other illustrations, and a map on p. 1-4 of cover.] †
A 13.13/2: W 66/968
- 14300 The year 1968 on Mendocino National Forest. [1969.] cover title [16] p. il. 4° (California Region.) [Text on p. 2-4 of cover.] †
A 13.13/2: M 52/968

GENERAL ACCOUNTING OFFICE
Washington, DC 20548

- 14301 Annual report of Comptroller General of United States, fiscal year 1968. 1968. xi+383 p. il. [Also issued as H. doc. 14, 91st Congress, 1st session. Document notation appears on title page in error.] * Paper, \$1.75.
● Item 543
L.C. card 22-27353
GA 1.1: 968
- 14302 GAO manual for guidance of Federal agencies [titles 1-9]. [Issued in looseleaf form.] * Paper, \$20.00 (including basic manual and supplementary service); \$5.00 additional for foreign mailing.
title 6. Pay, leave, and allowances, transmittal sheet 6-26; May 15, 1969. [1969.]
1 p.
GA 1.6/10: 957/trans.6-26
- 14303 List of GAO publications, v. 3, no. 1. July 1969. [1969.] cover title, 35 p. [Text on 2 p. of cover.] †
GA 1.16/2: 3/1
- 14304 Report to Congress: Administration and effectiveness of Economic Opportunity Loan Program for low-income rural families under Farmers Home Administration, Department of Agriculture; by Comptroller General of United States. Aug. 21, 1969. cover title, [8]+78 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 70-603421
GA 1.13: Ad 6/5
- 14305 — Agency for International Development loan program financial activities, status as of June 30, 1968; by Comptroller General of the United States. Sept. 11, 1969. cover title, [8]+68 p. il. 4° (B-133220.) † Paper, \$1.00.
L.C. card 73-603623
GA 1.13: In 8/9
- 14306 — Cessation of unauthorized payments of proficiency pay and variable reenlistment bonuses to candidates in officer training programs, Department of Defense; by Comptroller General of United States. Aug. 6, 1969. cover title, [6]+27 p. 4° (B-160096.) † Paper, \$1.00.
L.C. card 73-603422
GA 1.13: P 29/23
- 14307 — Effectiveness and administration of Community Action Program under title 2 of Economic opportunity act of 1964, Human Development Corporation, St. Louis City and St. Louis County, Mo., Office of Economic Opportunity; by Comptroller General of United States. Aug. 11, 1969. cover title, [10]+130 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 77-603423
GA 1.13: Sa 2 1/2
- 14308 — Effectiveness and administration of Community Action Program under title 2 of Economic opportunity act of 1964, Lake County, Inc., Office of Economic Opportunity; by Comptroller General of United States. Aug. 1, 1969. cover title, [9]+96 p. 4° (B-130515.) † Paper, \$1.00.
L.S. card 70-603054
GA 1.13: L 14
- 14309 — Effectiveness and administration of migrant and seasonal farmworkers program under title 3-B of Economic opportunity act of 1964, Phoenix, Ariz., Office of Economic Opportunity; by Comptroller General of United States. Aug. 26, 1969. cover title, [9]+76 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 70-603424
GA 1.13: P 56/7

GOVERNMENT PUBLICATIONS

- 14310 Report to Congress: Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title IB of Economic opportunity act of 1961, Gary, Ind., Department of Labor; by Comptroller General of United States. Sept. 5, 1969. cover title, [10]+109 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 74-603425 GA 1.13: G 19
- 14311 — Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title IB of Economic opportunity act of 1964, Gila River Indian Reservation and Pinal County, Ariz., Department of Labor; by Comptroller General of United States. Sept. 4, 1969. cover title, [10]+99 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 78-603426 GA 1.13: G 37/3
- 14312 — Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title IB of Economic opportunity act of 1964, Kansas City, Mo., Department of Labor; by Comptroller General of United States. Sept. 5, 1969. cover title, [9]+80 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 74-603547 GA 1.13: K 13/2
- 14313 — Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title IB of Economic opportunity act of 1964, Maricopa County, with emphasis on Phoenix, Ariz., Department of Labor; by Comptroller General of United States. Sept. 11, 1969. cover title, [9]+85 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 78-603556 GA 1.13: M 33/2
- 14314 — Effectiveness in meeting supply requirements of overseas U.S. agencies, General Services Administration; by Comptroller General of United States. Aug. 15, 1969. cover title, [7]+52 p. 4° (B-114807.) † Paper, \$1.00.
L.C. card 71-603427 GA 1.13: Su 7/25
- 14315 — Enforcement of sanitary, facility, and moisture requirements at federally inspected poultry plants, Consumer and Marketing Service, Department of Agriculture; by Comptroller General of United States. Sept. 10, 1969. cover title, [7]+35 p. 4° (B-163450.) † Paper, \$1.00.
L.C. card 75-603428 GA 1.13: Sa 5
- 14316 — Examination of financial statements of Federal Home Loan Bank Board for year ended Dec. 31, 1968; by Comptroller General of United States. Sept. 5, 1969. cover title, [5]+23 p. 4° (B-114827.) † Paper, \$1.00.
L.C. card 66-62274 GA 1.13: F 31/19/968
- 14317 — Examination of financial statements of Federal Home Loan Banks, supervised by Federal Home Loan Bank Board for year ended Dec. 31, 1968; by Comptroller General of United States. Aug. 17, 1969. cover title, 3 leaves+16 p. 4° (B-114827.) † Paper, \$1.00.
L.C. card 66-62274 GA 1.13: F 31/18/968
- 14318 — Examination of financial statements Federal Housing Administration fiscal year 1968, Department of Housing and Urban Development; by Comptroller General of United States. Sept. 9, 1969. cover title, [6]+39 p. 4° (B-114860.) † Paper, \$1.00.
L.C. card 66-60882 GA 1.13: F 31/17/968
- 14319 — Improvements made in medical care cost accounting system of Veterans Administration; by Comptroller General of United States. Aug. 5, 1969. cover title, [6]+24 p. 4° (B-61930.) † Paper, \$1.00.
L.C. card 72-603446 GA 1.13: M 46/12
- 14320 — Management of suggestion award portion of incentive awards program, Department of Army; by Comptroller General of United States. Aug. 27, 1969. cover title, [8]+35 p. 4° (B-166802.) † Paper, \$1.00.
L.C. card 79-603429 GA 1.13: Su 3

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14321 — Opportunities for increased savings by improving management of value engineering (design or manufacture simplification) performed by contractors, Department of Defense; by Comptroller General of United States. Aug. 25, 1969. cover title, [6]+47 p. il. 4° (B-165757.) † Paper, \$1.00.
L.C. card 76-603447 GA 1.13: V 24/3
- 14322 — Opportunity for geological survey to increase revenues through changes in its map-pricing practices. Department of Interior, Bureau of Budget; by Comptroller General of United States. Sept. 3, 1969. cover title, [5]+23 p. 4° (B-118678.) † Paper, \$1.00.
L.C. card 76-603448 GA 1.13: G 29/3
- 14323 — Overseas dependents school system in European area, Department of Defense; by Comptroller General of United States. Sept. 4, 1969. cover title, [6]+46 p. 4° (B-131587.) † Paper, \$1.00.
L.C. card 73-603449 GA 1.13: Sch 6/4
- 14324 — Potential for savings by reduction of aircraft engine procurement, Department of Navy, Department of Air Force; by Comptroller General of United States. Sept. 9, 1969. cover title, [5]+30 p. il. 4° (B-132989.) † Paper, \$1.00.
L.C. card 78-603450 GA 1.13: En 3/13

GENERAL SERVICES ADMINISTRATION
Washington, DC 20405

- 14325 Guide to specifications and standards of Federal Government. [1969.] cover title, iii+24 p. il. †
L.C. card 67-60671 GS 1.6/6: Sp 3/969

GEOGRAPHIC NAMES BOARD, Interior Dept.
Washington, DC 20240

Gazeteers. I 33.8:(nos.)

- 14326 108. Spanish Sahara, official standard names approved by Board on Geographic Names; prepared by Geographic Names Division, Army Topographic Command. June 1969. [2]+v+52 p. il. oblong 8° † Army Topographic Command, 6500 Brooks Lane, Washington, DC 20315, Attn: Geographic Names Division. 13600. ● Item 617
L.C. card 77-603458
- 14327 109. Mozambique, official standard names approved by Board on Geographic Names; prepared by Geographic Names Division, U.S. Topographic Command. June 1969. [2]+iv+505 p. il. oblong 8° † Army Topographic Command, 6500 Brooks Lane, Washington, DC 20315, Attn: Geographic Names Division. 13600
L.C. card 75-603590

GEOLOGICAL SURVEY, Interior Dept.
Washington, DC 20242

Bulletins. ● Item 620 I 19.3:(nos.)

- 14328 1261-E. Mineral resources of Blue Range primitive area, Greenlee County, Ariz. and Catron County, N.M. [with list of references cited], by James C. Ratte [and others]; with section on Aeromagnetic Interpretation, by Gordon P. Eaton. 1969. vi+91 p. il. 2 pl. in pocket. [Evaluation of mineral potential of area. Studies related to wilderness-primitive areas.] * Paper, \$1.00.
- 14329 1261-F. Mineral resources of San Juan primitive area, Colo. [with list of references cited], by T. A. Steven [and others]; with section on Iron resources in Irving Formation, by Jacob E. Gair and Harry Klemie. 1969. viii+187 p. il. 2 pl. in pocket. [Evaluation of mineral potential of area. Studies related to wilderness, primitive areas.] * Paper, \$1.75.
- 14330 1262. General and engineering geology of northern part of Pueblo, Colo. [with list of references cited]; by Glenn R. Scott. 1969. vi+131 p. il. 2 pl. 1 is in pocket. [Description of geology of bedrock and surficial deposits in and near Pueblo, Colo. Engineering behavior of rocks is summarized at end of report.] † Paper, \$1.75.
L.C. card 77-603490
- 14331 1271-C. Geology of Bear Peak area, Dona Ana County, N. Mex. [with selected bibliography]; by George O. Bachman and Donald A. Myers. 1969. iv+46 p. il. 1 pl. in pocket. [Study of southern part of San Andres Mountains, with emphasis on Paleozoic stratigraphy. Contributions to general geology.] Plate is colored.] * Paper, \$1.00.

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Bulletins—Continued

- 14332 1272-F. Gold investigations in Precambrian elastic and pelitic rocks, southwestern Colorado and northern New Mexico [with list of references cited]; by Fred Barker. 1969. iii+22+[3] p. il. [Contributions to economic geology. Includes title page and table of contents to Bulletin 1272.] * Paper, 25c.
- 14333 1279. Use of seismic intensity data to predict effect of earthquakes and underground nuclear explosions in various geologic settings [with list of references cited]; by Patrick J. Barosh. 1969. v+93 p. il. [Prepared on behalf of Atomic Energy Commission. Summary of various factors that determine effects of seismic disturbance at particular location and their utilization in predicting these effects.] * Paper, 45c.
L.C. card 77-601453
- 14334 1292. Geologic story of Mount Rainier, a look at the geologic past of one of America's most scenic volcanoes [with list of publications for further reading in geology]; by Dwight R. Crandell. vi+43 p. il. [Some illustrations are colored.] * Paper, 65c.
L.C. card 79-601704
- 14335 1312-G. Lead isotope guides for Mississippi Valley lead-zinc exploration [with list of references cited]; by Ralph S. Cannon, Jr., and Arthur P. Pierce. 1969. iv+20 p. il. [Review of correlations of isotopic compositions of ore-lead and tonnages of known ore in Mississippi Valley lead-zinc deposits. Contributions to economic geology.] * Paper, 20c.
- 14336 Characteristics of streamflow in Colville River basin, Stevens County, Wash. [with list of selected references]; by Walter R. Scott. Tacoma, Wash., 1969. [1]+iii+31 p. il. 4° (Water Resources Division.) [Prepared in cooperation with Public Utilities District no. 1 of Stevens County. Open-file report.] ‡ I 19.2: C 72/4
- Circular.**
- 14337 529-B. Movement of solute in Potomac River estuary at Washington, D.C. at low inflow conditions [with list of references]; by James F. Wilson, Jr., Ernest D. Cobb, and Nobuhiro Yotsukura. 1969. iv+14 p. il. 1 pl. in pocket 4° † ● Item 620-A I 19.4/2: 529-B
- 14338 Compilation of hydrologic data: Calaveras Creek, San Antonio River basin, Tex., 1967. [1968.] iii+47 leaves il. 4° (Water Resources Division, [Texas District].) [Prepared in cooperation with Texas Water Development Board, San Antonio River Authority, and U.S. Soil Conservation Service.] † U.S. Geological Survey, Water Resources Division, Federal Building, 300 East 8th Street, Austin, TX 78701
I 19.58: C 12/967
- 14339 — Escondido Creek, San Antonio River basin, Tex., 1967. [1969.] iii+73 leaves, il. 4° (Water Resources Division, Texas district.) [Prepared in cooperation with San Antonio River Authority, Soil Conservation Service, and Texas Water Development Board.] ‡ I 19.58: Es 1/967
- 14340 — Little Elm Creek, Trinity River basin, Tex., 1967. [1969.] iv+81 leaves, il. 4° (Water Resources Division, Texas district.) [Prepared in cooperation with City of Dallas and Texas Water Development Board.] ‡ I 19.58: L 72/967
- 14341 Intern-training opportunities provided by U.S. Geological Survey for scientists and technicians from other countries; compiled by International Activities Committee, United States Geological Survey. [1969.] [1]+i+54 p. 4° ([Project report D.C. Investigations (IR) DC-8.]) ‡ I 19.2: In 8
- 14342 John Wesley Powell, soldier, explorer, scientist [with list of selected references]. [1969.] 24 p. il. † ● Item 621
L.C. card 71-603443 I 19.2: P 87/2
- 14343 Preliminary evaluation of corrosion and encrustation mechanisms in tube wells of Indus plains, west Pakistan [with list of references]; by Frank E. Clarke and Ivan Barnes. Lahore, West Pakistan, July 1964. vi+81+3 p. il. 4° [Open file report. Prepared in cooperation with West Pakistan Water and Power Development Authority under auspices of United States Agency for International Development mission to Pakistan.] ‡ I 19.2: In 2/3

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 14344 Preliminary study of water-well corrosion, Chad Basin, Nigeria [with list of references]; by Frank E. Clarke and Ivan Barnes. July 1965. iv+36+[1] p. il. 4° [Prepared in cooperation with Geological Survey of Nigeria under auspices of Agency for International Development. Open file report.] ‡ I 19.2: N 56/3
- Professional papers. ● Item 624 I 19.16: (nos.)
- 14345 437-B. Land subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif. [with list of references cited]; by B. E. Lofgren and R. L. Klausling. 1969. vii+103 p. il. 4° [Prepared in cooperation with California Department of Water Resources. Study of land subsidence caused by water-level changes in complex aquifer systems, including analysis of stresses and appraisal of parameters for estimating subsidence. Studies of land subsidence.] * Paper, \$1.25.
- 14346 542-G. Effects of earthquake of Mar. 27, 1964 on various communities [with list of references cited]; by George Plafker [and others]. [1969.] vi+50+[3] p. il. 4° [Description of damage, principally from waves, vertical tectonic movements, and seismic vibration, to inhabited places throughout earthquake-affected part of Alaska. Alaska earthquake, Mar. 27, 1964, effects on communities. Includes title page and table of contents to Professional paper 542.] * Paper, \$2.00.
- 14347 604. On batholiths and volcanoes, intrusion and eruption of late Cenozoic magmas in Glacier Peak area, North Cascades, Wash. [with list of references cited]; by R. W. Tabor and D. F. Crowder. 1969. vii+67 p. il. 1 pl. in pocket, 4° [Description of Cloudy Pass batholith, overlying Gamma Ridge volcanic rocks, and still younger Glacier Peak volcano with discussion of source magmas, their genetic ties, and structures controlling their emplacement and eruption. Plate is colored.] * Paper, \$1.75. L.C. card 78-603548
- 14348 611. Foraminifera and stratigraphy of upper part of Pierre shale and lower part of Fox Hills sandstone (Cretaceous), north-central South Dakota [with list of references cited]; by James F. Mello. 1969. iv+121+[2] p. il. 11 pl. 4° [Description, illustration, and interpretation of Late Cretaceous foraminiferal faunas of parts of Pierre shale and Fox Hills sandstone, and discussion of stratigraphy of these lithologic units.] * Paper, \$2.25. L.C. card 75-603460
- 14349 616. Geology of Empire quadrangle, Grand, Gilpin, and Clear Creek Counties, Colo. [with list of references]; by William A. Braddock. 1969. iv+56 p. il. 3 pl. in pocket, 4° [One plate is colored.] * Paper, \$1.75. L.C. card 78-650226
- 14350 625-A. Distribution of gold and other metals in Cripple Creek district, Colo. [with list of references cited]; by Garland B. Gott [and others]. 1969. 17 p. il. 4° 2 pl. in pocket [Northwest-trending geochemical anomalies in surface rocks of Cripple Creek district are favorable areas for exploration for large low-grade gold deposits. Shorter contributions to economic geology.] * Paper, \$1.00.
- 14351 634. Diagenesis of tuffs in Barstow Formation, Mud Hills, San Bernardino County, Calif. [with list of references]; by Richard A. Sheppard and Arthur J. Gude. 3d. 1969. iv+35 p. il. 4° [Physical properties, chemistry, and origin of silicate minerals former in sillic tuffs of lacustrine deposit.] * Paper, 50c. L.C. card 79-650237
- 14352 650-C. Geological Survey research 1969, chap. C [papers, with lists of references]. 1969. v+247 p. il. 4° [Scientific notes and summaries of investigations in geology, hydrology, and related fields.] * Paper, \$3.00. L.C. card 68-46150
- 14353 680-D. Electrical resistivity measurements, Midway and Kure Atolls [with list of references cited]; by George V. Keller. 1969. iii+8 p. il. 4° [Electrical resistivity measurements are used to estimate porosity of reef sediments at various depths. Geology of Midway area, Hawaiian Islands.] * Paper, 25c.
- 14354 Quality of shallow ground water in Rincon and Mesilla Valleys, N. Mex. and Tex.; J. A. Basler and L. J. Alary. Aug. 1968. 30 leaves il. 4° [Prepared in cooperation with New Mexico State Engineer.] ‡ I 19.2: R 47
- 14355 Records of observation wells and water-level fluctuations in Aberdeen-Springfield area, Bingham and Power Counties, Idaho, in 1966; by H. G. Sisco and R. L. Whitehead. Boise, Idaho, June 1967. iii+27+16 leaves, il. 4° (Water Resources Division.) [Open-file report. Prepared in cooperation with Idaho Department of Reclamation and Water District 36. Includes list of other reports in this series.] ‡ I 19.2: W 46/7/966

GOVERNMENT PUBLICATIONS

- 14356 References for well data and water levels in California by Geological Survey [with list of References for well data and water levels]; compiled by J. S. Bader. Menlo Park, Calif., Feb. 12, 1969. 13 p. il. 4° (Water Resources Division.) [Basic-data compilation. Prepared in cooperation with California Department of Water Resources.] ‡ I 19.2: W 46/9
- 14357 Selection of metal components for long-term development of Egypt's corrosive ground waters [with list of references]; by Frank E. Clarke. July 1964. iv+39 p. il. 4° [Prepared in cooperation with Egyptian General Desert Organization under auspices of Agency for International Development, Mission to United Arab Republic. Open file report.] ‡ I 19.2: Eg 9
- 14358 Some hydrologic effects of Canal 111 near Homestead, Fla. [with list of references]; by Harry H. Barnes, jr., Frederick W. Meyer, and James H. Hartwell. Tallahassee, Fla., 1968. cover title, 17 leaves, il. 4° [Prepared by United States Geological Survey in cooperation with National Park Service and Corps of Engineers.] ‡ I 19.2: H 75
- 14359 Test wells in Post Area, White Sands Missile Range, Dona Ana County, N. Mex. [with list of references cited]; by Gene C. Doty. June 1968. 50 leaves, il. 16 pl. in pocket, 4° (Water Resources Division.) [Prepared in cooperation with U.S. Army, White Sands Missile Range, N. Mex. Open-file report.] ‡ I 19.2: W 58/2
- 14360 U.S. Geological Survey tracer study, Amargosa Desert, Nye County, Nev.: pt. 1, Exploratory drilling, tracer well construction and testing, and preliminary findings [with list of references]; by Richard H. Johnston. 1968. [1]+iv+64 p. il. 4° [Prepared in cooperation with Atomic Energy Commission. Open-file report.] ‡ I 19.2: Am 1/2/pt.1
- 14361 Utah basic-data release no. 16, Selected hydrologic data, Southern Utah and Goshen Valleys, Utah; by R. M. Cordova. 1969. iii+35 p. il. 1 pl. in pocket 4° [Prepared in cooperation with Utah Department of Natural Resources, Division of Water Rights, Salt Lake City, Utah. Text on p. 2 of cover.] ‡ I 19.2: Ut 1/no.16
- 14362 Water resources data for Florida, 1966: pt. 1, Surface water records, v. 2, Streams-southern Florida, Lake Okeechobee and Everglades. [1968.] cover title, viii+226 p. il. 4° ([Water Resources Division.]) [Prepared in cooperation with State of Florida and with other agencies.] ‡ District Chief, Water Resources Division, U.S. Geological Survey, P.O. Box 2315, Tallahassee, FL 32304
L.C. card 67-65945 I 19.53/2: F 66/966/pt.1/v.2
- 14363 Water resources data for Florida, 1967: pt. 1, Surface water records, v. 1, streams, northern and central Florida. [1968.] xi+299 p. il. 4° [Prepared in cooperation with State of Florida and with other agencies.] ‡ District Chief, Water Resources Division, U.S. Geological Survey, P.O. Box 2315, Tallahassee, FL 32304
L.C. card 67-65945 I 19.53/2: F 66/967/pt.1/v.1
- 14364 Water resources data for Florida, 1967: pt. 1, Surface water records, v. 3, Lakes. [1968.] cover title, ix+144 p. il. 4° ([Water Resources Division.]) [Prepared in cooperation with State of Florida and with other agencies.] ‡ District Chief, Water Resources Division, U.S. Geological Survey, P.O. Box 2315, Tallahassee, FL 32304
L.C. card 67-65945 I 19.53/2: F 66/967/pt.1/v.3
- 14365 Water resources data for Florida, 1967: pt. 2, Water quality records. [1968.] vii+313 p. il. 4° [Prepared in cooperation with State of Florida and with other agencies.] ‡ District Chief, Water Resources Division, U.S. Geological Survey, P.O. Box 2315, Tallahassee, FL 32304
L.C. card 67-65945 I 19.53/2: F 66/967/pt.2

*For Sale by Superintendent of Documents
‡Distribution Made by Issuing Office
‡Official Use. Not Available

- 14366 Water resources data for Montana, 1968: pt. 1, Surface water records. [1968.] cover title, ix+271 p. il. 1 map. 4° ([Water Resources Division.]) [Prepared in cooperation with State of Montana and with other agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, 421 Federal Building, Helena, MT 59601
L.C. card 68-60744 I 19.53/2 : M 76/968/pt.1
- 14367 Water resources data for Nebraska, 1968: pt. 1, Surface water records. [1969.] x+224 p. 2 maps 4° (Water Resources Division.) [Prepared in cooperation with Nebraska Department of Water Resources and with other State and Federal agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, Room 127 Nebraska Hall, 801 North 17th Street, Lincoln, NB 68508
L.C. card 68-60775 I 19.53/2 : N 27/968/pt.1
- 14368 Water resources data for New Jersey, 1968: pt. 1, Surface water records. [1969.] x+143 p. il. 4° (Water Resources Division.) [Prepared in cooperation with State of New Jersey and with other agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, 420 Federal Building, P.O. Box 1238, Trenton, NJ 08607
L.C. card 70-603649 I 19.53/2 : N 42 j/968/pt.1
- 14369 Water resources data for New Mexico, 1968: pt. 1, Surface water records. [1969.] cover title, ix+271 p. il. 4° ([Water Resources Division.]) [Prepared in cooperation with State of New Mexico and with other agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, P. O. Box 4369, Albuquerque, NM 87106
L.C. card 68-60776 I 19.53/2 : N 42 m/968/pt.1
- 14370 Water resources data for North Dakota, 1968: pt. 1, Surface water records. [1969.] cover title, ix+172 p. il. 4° ([Water Resources Division.]) [Prepared in cooperation with State of North Dakota and with other agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, Room 348, Federal Building, Bismarck, ND 58501
L.C. card 68-60777 I 19.53/2 : N 81 d/968/pt.1
- Water supply papers. ● Item 625 I 19.13 : (nos.)
- 14371 1535-O. Water load of uranium, radium, and gross beta activity at selected gaging stations, water year 1960-61 [with list of references cited]; by E. C. Mallory, Jr., J. O. Johnson, and R. C. Scott. 1969. iii+31 p. il. 1 map in pocket. [Contribution to International Hydrological Decade. Geochemistry of water.] * Paper, 65c.
- 14372 1877. Feasibility study of use of acoustic velocity meter for measurement of net outflow from Sacramento-San Joaquin delta in Calif. [with list of references cited]; by Winchell Smith. 1969. vi+54 p. il. [Prepared in cooperation with California Department of Water Resources and Army Corps of Engineers.] * Paper, 40c.
L.C. card 71-650227
- 14373 1879-E. Variations in low-water streambed elevations at selected stream-gaging stations in northwestern California; by John J. Hickey. 1969. iii+33 p. il. 1 pl. in pocket. [Prepared in cooperation with California Department of Water Resources. Contributions to hydrology of United States.] * Paper, 60c.
- 14374 1879-H. Water quality and discharge of streams in Lehigh River basin, Pa. [with list of references]; by Edward F. McCarren and Walter B. Keighton. 1969. iv+48+[3] p. il. [Prepared in cooperation with Commonwealth of Pennsylvania Department of Forests and Waters. Contributions to hydrology of United States. Includes title page and contents of water-supply paper 1879.] * Paper, 35c.
- 14375 1919. Surface-water supply of United States, 1961-65, pt. 6, Missouri River basin, v. 4, Missouri River basin below Nebraska City, Nebr. 1969. ix+805 p. il. 1 pl. in pocket. [Prepared in cooperation with States of Colorado, Iowa, Kansas, Missouri and Nebraska, and with other agencies.] * Paper, \$3.75.
L.C. card 46-40712
- 14376 1956. Quality of surface waters of United States, 1964: pts. 5 and 6, Hudson Bay and upper Mississippi River basins and Missouri River basin [with list of literature cited.] 1969. xi+462 p. il. [Prepared in cooperation with States of Colorado, Illinois, Iowa, Kansas, Missouri, Minnesota, Montana, Nebraska, South Dakota, Wisconsin, and Wyoming, and with other agencies.] * Paper, \$2.00.
L.C. card GS 43-68

GOVERNMENT PUBLICATIONS

Water supply papers—Continued

- 14377 1976. Ground-water levels in United States, 1962-66, north-central States; prepared under direction of C. L. McGinness. 1969. v+117 p. ll. [Prepared in cooperation with States of Iowa, Kansas, Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin, and with other agencies.] * Paper, 55c.
L.C. card GS 60-161

HEALTH, EDUCATION, AND WELFARE DEPARTMENT Washington, DC 20201

- 14378 Bibliography on early childhood. July 30, 1969. [1]+16+[1] p. 4" (Office of Child Development, Project Head Start.) † ● Item 444-B
L.C. card 74-603693 FS 1.18: C 43
- 14379 Career development, selected references; compiled by Dorothy M. Jones and Laura A. Miles. [2d edition], revised Aug. 1968. 1968. cover title. [6]+34 p. 4" (Division of Career Development.) ‡ FS 1.18: C 18/968
- 14380 Personnel qualifications for Medicare personnel. Dec. 1968. [1]+4 leaves +[3]+66 p. 4" ‡
FS 1.2: M 46/7
- 14381 Role of public welfare in housing. report to House Committee on Ways and Means and Senate Committee on Finance. Jan. 1969. cover title, [32] p. ll. 4" † ● Item 445
L.C. card 75-603558 FS 1.2: H 81

HOUSING AND URBAN DEVELOPMENT DEPARTMENT Washington, DC 20410

- 14382 Address by William B. Ross, Acting Assistant Secretary for Mortgage Credit, U.S. Department of Housing and Urban Development, and Acting Commissioner, Federal Housing Administration, before annual convention of National Association of Real Estate Brokers, Inc., St. Louis, Mo., Aug. 19, 1969. [1]+13 p. 4" †
HH 1.7: R 733
- 14383 Address prepared for delivery by Floyd H. Hyde, Assistant Secretary for Model Cities and Governmental Relations, Department of Housing and Urban Development, [to] Texas State Governor's Conference on Model Cities Program, Austin, Tex., Aug. 28, 1969. [1]+7 p. 4" †
HH 1.7: H 99/2
- 14384 Address prepared for delivery by Samuel J. Simmons, Assistant Secretary for Equal Opportunity, Department of Housing and Urban Development before National Association of Real Estate Brokers, St. Louis, Mo., Aug. 18, 1969. [1]+14 p. 4" †
HH 1.7: Si 4
- 14385 Balanced programs for balanced budgets, address by Marie C. McGuire, Assistant for Problems of Elderly and Handicapped, at Michigan Nursing Home Association Convention, Detroit, Mich. June 2, 1969. [1969.] [1]+18 leaves, 4" †
HH 1.7: M 17/12

HUD handbook.

- 14386 RHA 7100.1. Workable program for community improvement. Oct. 1968 [1969.] [41] p. 4" [Issued with perforations. Includes transmittal notices 1 and 2.] † ● Item 582-E
HH 1.6/6: RHA 7100.1/rep.

IP (series). ● Item 582-G

HH 1.27: (nos.)

- 14387 32. Home mortgage insurance. [June 1969.] [3]+14 [1] p. narrow 8" †
- 14388 75. Dealer and contractor guide to property improvement loans. [June 1969.] [10] p. narrow 8" * Paper, 10c.
- 14389 108. Nonprofit sponsors of housing for lower income families. [June 1969.] [10] p. narrow 8" †
- 14390 116. Nonmetropolitan district planning assistance. [June 1969.] [8] p. narrow 8" †
- 14391 118. What is relocation all about. [June 1969.] [8] p. narrow 8" †
- 14392 127. Neighborhood facilities program. [June 1969.] [7] p. narrow 8" †

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

MP-(series).

HH 1.28:(nos.)

- 14393 78. Programs of HUD. June 1969. iii+89 p. ‡
 14394 92. Directory of urban transportation research and planning projects, financed by U.S. Department of Housing and Urban Development, HUD [1969.] cover title, [9]+45 p. 4° ([Office of Urban Transportation Planning and Liaison, Division of Systems Research and Development.]) * Paper, 55c. ● Item 582-H
- 14395 104. Comparison of 2 techniques for obtaining housing vacancy and turnover data. [June 1969.] cover title, [2]+22+[26] p. 4° ([Contract H-819.]) [Published in cooperation with Center for Real Estate and Urban Economics at University of California, Berkeley.] ‡
- 14396 107. Cost and time associated with new multifamily housing construction in New York City. 1969. cover title, [1]+vii+86 p. il. 4° (Office of Urban Technology and Research.) ‡ ● Item 582-H
- 14397 State laws enacted in 1968 of interest to Department of Housing and Urban Development, as reported by Commerce Clearing House and other unofficial sources. July 1969. cover title, [1]+122 p. (Office of General Counsel.) ‡ ● Item 583 HH 1.5: St 2/2

IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept. Washington, DC 20536

- 14398 Supplemental index 1 to v. 12 of Administrative decisions under immigration and nationality laws of United States [for Interim decisions nos. 1901-1966 covering period Aug. 11, 1967-May 1, 1969.] [July 1, 1969.] [1]+6 p. * Paper, 10. J 21.11/3: 12/ind.1

INDIAN AFFAIRS BUREAU, Interior Dept. Washington, DC 20240

- 14399 Adult vocational training, approved courses. [Nov. 30, 1968.] cover title, [2]+133 leaves, il. oblong 8° ‡ I 20.2: V 85

INTERIOR DEPARTMENT Washington, DC 20240

NOTE.—Requests to the Interior Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 14400 Decisions of Department of Interior, Jan.-Dec. 1968; edited by Vera E. Burgin, Mildred B. Harper. 1969. v. 75, lxvii+475 p. * Cloth, \$3.50. ● Item 602
L.C. card 7-23651 I 1.69: 75
- 14401 Guide to Department of Interior research and development contracts and grants. [1968.] 8 p. il. 4°, folded into narrow 8° size. (Office of Science Adviser, Office of Secretary.) ‡ I 1.77/2: R 31
- Native American arts (series).
- 14402 2. Graphic arts of Alaskan Eskimo; [by Dorothy Jean Ray]. [1969.] 88 p. il. 4° (Indian Arts and Crafts Board.) * Paper, \$1.00. ● Item 603-E I 1.84/4: 2
L.C. card 72-603663
- [Saline water] research and development progress reports. (Office of Saline Water.) ● Item 604-A-1 I 1.88:(nos.)
- 14403 309. Continuous counter-current ion exchange removal of calcium from sea water to prevent scaling of distillation equipment, by Chemical Separations Corp, Oak Ridge, Tenn. Nov. 1967 [errata]. [1969.] 1 p. 4° ‡
- 14404 450. Report on sea water desalination analytical procedures [with list of references]; by John R. Newton, and M. E. Atkins, Office of Saline Water, Wrightsville Beach Test Facility. May 1969. ix+[1]+133 p. il. 4° * Paper, \$1.25.
- 14405 452. Research on piezodialysis; by F. R. Leitz, S. S. Alexander, and A. S. Douglas, Ionics Incorporated, Watertown, Mass. July 1969. iii+147 p. il. 4° (Contract 14-01-0001-611.) * Paper, \$1.25.
L.C. card 79-603662
- 14406 453. Test of 10,000 GPD reverse osmosis (spiral module) pilot plant, San Diego, Calif. [with list of references]; by R. G. Sudak, Gulf General Atomic Incorporated, San Diego, Calif. [1969.] iv+39 p. il. 4° (Contract 14-01-0001-1264.) * Paper, 50c.
- 14407 454. Disposal of brine effluents from inland desalting plants, review and bibliography; [by] G. W. DePuy, July 1969. iv+211 p. il. 4° (Contract 14-01-0001-1306, work order 3.) * Paper, \$1.75.
L.C. card 73-603666

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 59

GOVERNMENT PUBLICATIONS

- 14408 Sea water conversion, Wrightsville Beach Test Facility, Wrightsville Beach, N.C. [1969.] 8 p. il. (Office of Saline Water.) † ● Item 604-A
I 1.87: W 93/969
- 14409 Transmission study 190, Steering Committee report, Feb. 1968. [1968.] cover title, [144] p. il. 4° (Reclamation Bureau, Bonneville Power Administration, Southwestern Power Administration.) ‡ I 1.2: T 68

INTERNAL REVENUE SERVICE, Treasury Dept. Washington, DC 20224

- 14410 Description of available forms relating to Alcohol, Tobacco and Firearms Division activities, May 1969, cover title, [2]+17 p. il. 4° (Publication 480 (Rev. 5-69).) * Paper, 30c. ● Item 956 T 22.2: A1 1/4/969
- 14411 Highlights of 1968 changes in tax law. [1968.] 4 p. 4° (Publication 553 (10-68).) * Paper, \$2.00 per 100; single copy, 5c. T 22.44/2: 553
- 14412 Income tax deduction for taxes. [1968.] 7 p. 4° (Publication 546 (10-68).) * Paper, \$6.00 per 100; single copy, 10c. T 22.44/2: 546
- 14413 Index-digest supplement system: Service 4, Excise taxes, supp. 1, Jan.-June 1969. [1969.] 9 p. 4° (Publication 644.) * Paper, \$1.50 (including basic volume and supplementary material for an indefinite period); 50c additional for foreign mailing. ● Item 960 T 22.25/8: 965-68/supp.1
- 14414 — Service 5, Alcohol, tobacco & firearms, supp. 1, Jan.-June 1969. [1969.] 8 p. 4° (Publication 645.) * Paper, \$2.00 (including basic volume and supplementary material for an indefinite period); 50c additional for foreign mailing. ● Item 960 T 22.25/9: 965-68/supp.1
- 14415 Information on excise taxes for 1969. [1968.] 11 p. 4° (Publication 510 (10-68).) * Paper, \$6.00 per 100; single copy, 10c. T 22.44/2: 510
- 14416 Statistics of income, 1967, preliminary: Business income tax returns [with accounting periods ended mainly Dec. 1967]. [1969.] [2]+ii+34 p. il. 4° (Publication 453 (7-69).) * Paper, 35c. ● Item 964 T 22.35/3: B 96/967
- 14417 Tax information on deduction for bad debts. [1968.] 8 p. 4° (Publication 548 (10-68).) * Paper, \$6.00 per 100; single copy, 10c. T 22.44/2: 548

INTERNATIONAL COMMERCE BUREAU, Commerce Dept. Washington, DC 20230

- Foreign economic trends and their implications for United States, ET (series). * Paper, \$15.00 a yr., \$6.00 additional for foreign mailing. ● Item 231-I C 42.30: (nos.)
- 14418 69-87. Republic of Mali, Aug. 14, 1969. 8 p. 4° [Annual.]
- 14419 69-88. Venezuela, Aug. 22, 1969. 10 p. il. 4° [Semiannual.]
- 14420 69-90. New Zealand, [Aug. 22, 1969.] 15 p. il. 4° (American Embassy, Wellington.) [Semiannual.]
- 14421 69-91. Sierra Leone, Aug. 26, 1969. 8 p. il. 4° (American Embassy, Freetown.) [Annual.]
- 14422 69-92. Canada, Sept. 3, 1969. 10 p. il. 4° (American Embassy, Ottawa.) [Semiannual.]
- 14423 69-94. Belgium, Sept. 5, 1969. 8 p. 4° [Semiannual.]
- 14424 Foreign products available for production in United States under licensee agreements, Aug. 1, 1969. 13 p. 4° (USCOMM-DC.) ‡ C 42.2: F 76/5

INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, DC 20523

- 14425 Rural income and expenditure sample survey of Vietnam, initial report; by Robert H. Stroup, July 1967. [396] p. il. 4° (AID/fe-257.) [Some pages are issued as leaves.] ‡ L.C. card 79-603532 S 18.2: V 67/6
- 14426 U.S. foreign aid and Alliance for progress, proposed fiscal year 1970 program. [1969.] [1]+77 p. [Excerpt from Agency's program presentation to Congress outlining President's foreign aid request for fy 1970. [Text and map on p. 1-3 of cover.] ‡ S 18.28/a: A1 55

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14427 U.S. foreign aid in Africa, proposed fiscal year 1970 program. [1969.] cover title, 52 p. [Excerpt from Agency's program presentation to Congress outlining President's foreign aid request for fy 1970. Text and map on p. 1-3 of cover.] ‡ S 18.28/a: Af 83
- 14428 U.S. foreign aid in east Asia; proposed fiscal year 1970 program. [1969.] cover title, 39 p. [Text on p. 2-3 of cover.] ‡ S 18.28/a: Ea 7a
- 14429 U.S. foreign aid in Near East and South Asia, proposed fiscal year 1970 program. [1969.] cover title, 32 p. [Excerpt from Agency's program presentation to Congress outlining President's foreign aid request for fy 1970. Text and map on p. 2-3 of cover.] ‡ S 18.28/a: N 27

INTERSTATE COMMERCE COMMISSION Washington, DC 20423

- 14430 Decisions of Interstate Commerce Commission, Apr.-Sept. 1966 (number of older cases included). 1969. xvii+802 p. il. (Interstate Commerce Commission reports, v. 102, Motor carrier cases.) * Cloth, \$5.25. ● Item 688
L.C. card 8-30656 IC 1 mot.8:102

JUSTICE DEPARTMENT Washington, DC 20530

- 14431 1st annual report of Law Enforcement Assistance Administration, fiscal year 1969. [1969.] vi+66 p. il. 4° * Paper, 65c. ● Item 717-C
L.C. card 77-603675 J 1.1/2: 969
- Opinions of Attorney General [Volume 42, Opinion]. * Paper, \$2.00 a volume, 50c. additional for foreign mailing; single copies vary in price.
● Item 718 J 1.5/a: 42/(nos.)
- 14432 35. Validity of executive order authorizing program restricting transfer of capital to foreign countries by substantial investors in U.S. and requiring repatriation by such investors of portions of their foreign earnings and short-term financial assets held abroad. [1969.] 10 p. * Paper, 10c.
- 14433 36. Member of Congress, appointment to civil office prior to pay increase; Jan. 3, 1969. [1969.] 3 p. * Paper, 10c.
- 14434 Report of Attorney General to Congress of United States on administration of Foreign agents registration act of 1938, as amended, for calendar year 1968. [1968.] cover title, [1]+197 p. 4° * Paper, \$1.50. ● Item 719-C
L.C. card 45-36591 J 1.30: 968

LABOR DEPARTMENT Washington, DC 20210

- 14435 ESARS handbook. Sept. 1969. cover title, [2]+163 p. 4° (Manpower Administration.) ‡ ● Item 745-A L 1.7/2: Es 1
- 14436 Guidelines for submission of applications for manpower research institutional grants under Manpower development and training act of 1962, as amended. [1969.] 12+10+[1]+6 p. 4° (Manpower Administration.) ‡ ● Item 745-A L 1.7/2: M 31/3
- 14437 Labor Day, how it came about, what it means. [1969.] [5] p. narrow 8° ‡ L 1.2: L 11/10/969
- 14438 Labor statistics for national decision making, address by Secretary of Labor George P. Shultz to American Statistical Association, Aug. 19, 1969, New York, N.Y. [1969.] 18 p. 4° ‡ L 1.13: Sh 9/6
- 14439 Manpower research institutional grant program, first three years, 1966-69; [prepared by Linda Buss]. [1969.] [3]+43 p. 4° (Manpower Administration; [Office of Manpower Research].) ‡ ● Item 745
L.C. card 70-603673 L 1.2: M 31/43/966-69
- 14440 Manpower technical exchange. (Manpower Administration.) [Biweekly.] ‡ L 1.39/10: (date)
Ang. 15, 1969 —

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

MDTA experimental and demonstration findings.

- 14441 4. Job development for hard-to-employ; [by Louis Ferman]. June 1968. [1]+iv+119 p. 4° (Manpower Administration.) [Contract 82-24-68-20; Institute of Labor and Industrial Relations, University of Michigan-Wayne State University.] † ● Item 746-M L 1.56:4
- 14442 Work incentive program, from welfare to wages. [July 1969 (revised).] [1969.] [8] p. narrow 8° (Manpower Administration.) * Paper, 15c. L 1.2: W 89/7/969
● Item 745

LABOR STANDARDS BUREAU, Labor Dept. Washington, DC 20210

- 14443 Maritime safety data for shipyards: Gas hazards trainer. [1969.] [2]+28 p. il. 4° (MSD LS-9; OOS 2.68.) [Page 28 left blank to be used for notes.] ‡ L 16.47/2: G 21/2/968
- 14444 — Scupper drain attachments to vessels in drydock. [1969.] [1]+ii+14 p. il. 4° (MSD LS-454; OOS-2.68.) ‡ L 16.47/2: Scu 4/968
- 14445 — Shipyard fire and explosion hazards. [1969.] 4 p. il. 4° (MSD LS-36; 2.68.). ‡ L 16.47/2: F 51/968
- Occupational safety aids, Department of Labor safety training programs OSA LS-(series). ● Item 765-G L 16.49:(nos.)
- 14446 [166]. Good housekeeping for successful safety program. [1969.] [8] p. il. 4° (OOS 2.69.) [Series number incorrectly given on title page as 327.] * Paper, 10c.
- 14447 175. Safe lifting. [1969.] [8] p. il. 4° (OOS 4.69) * Paper, 15c
- 14448 181. Supervisory responsibility for safety. [1969.] [8] p. il. 4° (OOS 4.69.) * Paper, 10c.
- 14449 323. Development of safety movement. [1969.] [8] p. il. 4° (OOS-2.69) * Paper, 10c.
- 14450 327. Elements of safety program. [1969.] [12] p. il. 4° (OOS-2.69.) * Paper, 15c.

LABOR STATISTICS BUREAU, Labor Dept. Washington, DC 20210

- Bulletins. ● Item 768 L 2.3:(nos.)
- 14451 1425-10. Major collective bargaining agreements: Plant movement, transfer, and relocation allowances; [prepared by staff of Division of Industrial Relations, Office of Wages and Industrial Relations]. July 1969. vi+116 p. 4° [Includes list of available Bulletins of 1425 series on major collective bargaining agreements.] * Paper, \$1.25. L.C. card L 65-11
- 14452 1625-69. Area wage survey: Richmond, Va., metropolitan area. Mar. 1969. July 1969. iii+17 p. oblong 8° * Paper, 30c. L.C. card L 66-67
- 14453 1625-70. Area wage survey: Greenville, S.C., metropolitan area, May 1969. July 1969. iii+27 p. oblong 8° * Paper, 35c. L.C. card L 66-153
- 14454 1625-71. Area wage survey: Charleston, W. Va., metropolitan area, Apr. 1969. July 1969. iii+15 p. oblong 8° * Paper, 30c. L.C. card L 66-141
- 14455 1625-72. Area wage survey: Rockford, Ill., metropolitan area, May 1969. Aug. 1969. iii+15 p. oblong 8° * Paper, 30c. L.C. card L 66-145
- 14456 1625-73. Area wage survey: Canton, Ohio, metropolitan area, May 1969. Aug. 1969. iii+15 p. oblong 8° * Paper, 30c. L.C. card L 66-131
- 14457 1626. Industry wage survey: Iron and steel foundries, Nov. 1967 [prepared by Robert G. Bryan]. June 1969. vi+84+[2] p. 4° * Paper, \$1.00. L.C. card L 64-45
- 14458 1627. Employee compensation in private nonfarm economy, 1966; [prepared by John Litsas]. June 1969. vi+54 p. 4° * Paper, 60c. L.C. card 76-603593
- 14459 1628. Summaries of manpower surveys and reports for developing countries, 1958-68 [with list of selected readings; prepared by Evelyn R. Kay]. June 1969. viii+231 p. 4° * Paper, \$1.75. L.C. card 79-603461
- 14460 1630. Handbook of labor statistics 1969 [compiled in Office of Publications]. July 1969. xi+407 p. 4° * Paper, \$3.75. L.C. card L 27-328
- 14461 1631. Planning and administrative personnel in local government, pilot study, June 1969. [1969.] [38] p. 4° * Paper, 45c. L.C. card 76-603455

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14462 Changing patterns of costs and structure in health sector, [address] by Herbert Bienstock, Regional Director, Department of Labor, Bureau of Labor Statistics, 341 9th Ave., New York, N.Y., before New York Academy of Sciences, New York, N.Y., Mar. 28, 1969. [1969.] 15 leaves, 4° † L 2.26: B 47/3
- 14463 Labor conditions and labor organizations in Turkey. [Aug. 1969.] [1]+11 p. il. 4° [Issued with perforations.] † L 2.72/4: T 84
- Monthly labor review reprints.
- 14464 2632. Raising construction costs and anti-inflation policies, report on Western Europe: [by] E. Jay Howenstine. [1969.] 3-10 p. 4° [From June 1969 issue.] † L 2.6/a: 2632
- North central regional reports. † L 2.71/4: (nos.)
- 14465 6. Union contract expirations in north central region, July 1969-70: [prepared by George P. Hunt]. [1969.] cover title, [1]+62 p. 4°
- 14466 7. Occupational trends in sanitary services, warehouses, and stockrooms of northern Illinois [with list of references]. [July 1969.] cover title, [3] leaves+28 p. il. 4°
- 14467 Occupational earnings and wage trends in metropolitan areas, 1968-69, July 1969. 10 p. 4° (No. 2 of 3 (30 areas).) † L 2.86: 968-69/no.2
- Regional reports. (Middle Atlantic Regional Office.)
- 14468 12. Charting New York City economy: graphic summary of recent economic trends. May 1969. cover title, [3]+28 p. il. oblong 8° † L 2.71/6: 12
- 14469 [This entry number not used.]
- 14470 Some aspects of changing patterns of work and workers in new urban environment. [1969.] [1]+29 p. il. 4° (Middle Atlantic Region.) † L 2.92: W 89
- 14471 Some background material relating to food prices and living costs. May 1969. [1]+8 p. il. 4° [Prepared for presentation before hearings at New York City Department of Consumer Affairs, May 26, 1969.] † L 2.92: F 73
- 14472 Some facts relating to dimension of urban poverty. Apr. 1969. [1]+11 p. il. 4° (Middle Atlantic Region.) † L 2.92: P 86
- 14473 Some facts relating to economic climate for collective bargaining, for presentation by Alan E. Gould, Community Services Coordinator, Seminar on Emerging characteristics of collective bargaining, 1969, sponsored by Fairleigh Dickinson University, College of Business Administration and Federal Mediation and Conciliation Service, Madison Campus, N.J., Apr. 10, 1969. [1969.] [1]+23 p. il. 4° (Middle Atlantic Region.) † L 2.92: C 68
- 14474 Some facts relating to employment, unemployment, and living conditions in New York [charts and tables]. New York, N.Y. June 1969. [6] p. il. narrow large 8° † L 2.92: N 42 y/3/969-2
- 14475 Some facts relating to job situation in New York [charts and tables]. Dec. 18, 1967. [1968.] [1]+29 p. il. 4° (Middle Atlantic Regional Office.) † L 2.92: N 42 y/967
- 14476 Some facts relating to job situation in New York [charts and tables], for presentation by Samuel M. Ehrenhalt, Assistant Regional Directors, at South Bronx Community Corporation, Bronx, N.Y., Apr. 4, 1968. [1968.] [1]+31 p. il. 4° (Middle Atlantic Regional Office.) † L 2.92: N 42 y/968-2
- 14477 Some facts relating to job trends in New York City [charts and tables], for presentation by Samuel M. Ehrenhalt, Assistant Regional Director, at Cornell University, New York State School of Industrial and Labor Relations, New York, N.Y., Mar. 12, 1968. [1968.] [1]+31 p. il. 4° (Middle Atlantic Region.) † L 2.92: N 42 y/4
- 14478 Some facts relating to occupational outlook in late 1960's. Mar. 1968. [6] p. narrow 4° il. (Middle Atlantic Region.) † Bureau of Labor Statistics, 341 Ninth Ave., New York, N.Y. 10001 L 2.92: Oc 1

GOVERNMENT PUBLICATIONS

- 14479 Some facts relating to the Puerto Rican and labor market [charts and tables]. May 1968. [1]+20 p. il. 4° (Middle Atlantic Region.) ‡
L 2.92: P 96
- 14480 U.S. Department of State living quarters allowances. [1969.] 7 p. 4°
[From Labor development abroad, May 1969.] ‡
L 2.32/2 a: L 76/2/969
- 14481 Wage trends for occupational groups in metropolitan areas, Aug. 1967–
Aug. 1968. Aug. 1969. 4 p. 4° ‡
L 2.86/2: 967–68–2

LIBRARY OF CONGRESS Washington, DC 20540

- 14482 Classification, class K, subclass KF, Law of United States; [prepared by
Werner B. Ellinger, with assistance of John Fischer]. Preliminary edi-
tion. 1969. xii+333 p. large 8° (Processing Department, Subject Cat-
aloging Division.) ‡ Paper, \$5.00, Card Division, Library of Congress,
Building 159, Navy Yard Annex, Washington, D.C. 20541 ● Item 819
L.C. card 69-60005 L C 26.9: KF
- 14483 Ghana, guide to official publications, 1872-1968; compiled by Julian W.
Witherell and Sharon B. Lockwood. 1969. xi+110 p. 4° (General Refe-
rence and Bibliography Division, Reference Department.) * Paper,
\$1.25. ● Item 806-B
L.C. card 74-601680 L C 2.8: G 34/872-968

MARINE CORPS (Navy), Defense Dept. Washington, DC 20350

Fleet Marine Force manual FMFM (series).

- 14484 6-3. Marine infantry battalion [with list of references]. [1969.] [6]+viii+513
p. il. 4° [Issued in looseleaf form. Supersedes FMFM 6-3, Apr. 16, 1964.]
* Paper, \$4.00. ● Item 384 D 214.9/4: 6-3/2

MARITIME ADMINISTRATION, Commerce Dept. Washington, DC 20548

- 14485 Containerships under construction and on order (including conversions) in
United States and foreign shipyards, oceangoing ships of 1,000 gross
tons and over as of June 30, 1968. Nov. 20, 1968. [1]+8+[1] leaves, 4°
(Office of Maritime Promotion, Division of Trade Studies.) ‡
C 39.231: 968
- 14486 Containerships under construction and on order (including conversions)
in United States and foreign shipyards, oceangoing ships of 1,000 gross
tons and over as of Dec. 31, 1968. June 12, 1969. [21] leaves, oblong 8°
(Office of Government Aid, Division of Trade Studies.) ‡
C 39.231: 968-2
- MA SP (series). ‡ C 39.210/2: (nos.)
- 14487 69-12. Remarks by A. E. Gibson, Maritime Administrator, Department of Com-
merce, at Maritime Administration Research and Development Con-
ference, Washington, D.C., Sept. 10, 1969. 1969. 3 p. 4°
- 14488 69-13. Partners in the future, ships and ports, remarks by A. E. Gibson, Mari-
time Administrator, Department of Commerce, before Pacific Coast
Assn. of Port Authorities at Honolulu, Hawaii, Sept. 22, 1969. 1969.
10 p. 4° ([US-COMM-DC 43184.])
- 14489 Oceangoing foreign flag merchant type ships of 1,000 gross tons and over
owned by United States parent companies as of Dec. 31, 1967; prepared
by Office of Maritime Promotion, Division of Trade Studies. [1968.]
[2]+34 leaves, 4° (Report MAR-560-22.) ‡ C 39.230: 967
- 14490 Oceangoing foreign flag merchant type ships of 1,000 gross tons and over
owned by United States parent companies as of June 30, 1968; prepared
by Office of Maritime Promotion, Division of Trade Studies. [1969.] 35
leaves, 4° (Report MAR-560-22.) ‡ C 39.230: 968

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 14491 Oceangoing merchant ships of 1,000 gross tons and over, lost and scrapped during calendar year 1967 (excludes vessels operating exclusively on Great Lakes and Inland waterways and special types such as channel ships, icebreakers, cable ships, etc., and merchant ships owned by any military force); prepared by Office of Maritime Promotion, Division of Trade Studies. Revised July 18, 1968. [1968.] [1]+vi+22 leaves, 4° (Report MAR-560-23.) ‡
L.C. card 70-600595 C 39.229 : 967
- 14492 Oceangoing merchant ships of 1,000 gross tons and over, lost and scrapped during calendar year 1968 (excludes vessels operating exclusively on Great Lakes and Inland Waterways and special types such as channel ships, icebreakers, cable ships, etc., and merchant ships owned by and military force); prepared by Office of Government Aid, Division of Trade Studies. June 6, 1969. [1]+viii+22 leaves, 4° (Report MAR-560-23.) ‡
L.C. card 70-600595 C 39.229 : 968
- 14493 United States flag containerships and United States flag ships with partial capacities for containers and/or vehicles [as of Dec. 31, 1968]; prepared by Office of Government Aid, Division of Trade Studies. Apr. 25, 1969. [1]+8 leaves, oblong 8° ‡
C 39.232 : 968-2
- 14494 United States flag containerships and United States flag ships with partial capacities for containers and/or vehicles [as of June 30, 1968]; prepared by Office of Maritime Promotion, Division of Trade Studies. Oct. 25, 1968. [1]+7 leaves, oblong 8° ‡
C 39.232 : 968

MEDICINE AND SURGERY BUREAU (Navy), Defense Dept.
Washington, DC 20350

Naval Aerospace Medical Institute: NAMI (series). (Naval Aerospace Medical Center, Pensacola, Fla.) ‡ D 206.18 : (nos.)

- 14495 1019. Stability of Edwards personal preference schedule need scale scores and profiles over 7-week interval [with list of references; by] Lawrence K. Waters. Oct. 18, 1967. [1]+ii+5+2+[1] p. ii. 4° ([Project] MF 022.01.02-5001.55.) [Abstract cards attached.]
- 14496 1032. Repeated or continual measurements of cardiac output in squirrel monkey (*Saimiri sciureus*) by thermomodulation [with list of references; by] Hassan H. Khalil, Mar. 8, 1968. [1]+ii+18+2+[1] p. ii. 4° ([Project] MR 011.01.4.) [Abstract cards attached.]
- 14497 1035. Simple method for percutaneous introduction of cardiac catheters [with list of references; by] Hassan H. Khalil, Mar. 29, 1968. ii+4+2+[2] p. ii. 4° ([Project] MR 011.01.5.) [Abstract cards attached.]
- 14498 1037. Relationship of Naval aviator's speech discrimination test to pure tone audiogram [with list of references; by] James W. Greene. Apr. 9, 1968. ii+12+[6] p. ii. 4° ([Projects] MF 022.03.02-5021.2; NASC A34-531-061/5611/F022-01-03.) [Abstract cards attached.]
- 14499 1038. Expansion of Naval flight officer student prediction system [with one reference; by] Richard F. Booth and Floyd E. Peterson. May 20, 1968. ii+5+2+[2] p. 4° ([Project] MF 022.01.02-5002.10.) [Abstract cards attached.]
- 14500 1039. Optimal weighting of course grades for 2 naval air training schools [with list of references; by] Richard F. Booth. May 3, 1968. ii+13+2+[2] p. 4° ([Project] MF 022.01.02-5009.1.) [Abstract cards attached.]
- 14501 1045. Sixty-minute vigilance task with 100 scoreable responses [with list of references; by] Robert S. Kennedy. July 16, 1968. ii+10+[2] p. ii. 4° ([Project] MF 12.524.002-5002.11.) [Abstract cards attached.]
- 14502 1047. Development of aviation combat criterion, preliminary report [with list of references; by] George M. Rickus, Jr., and James R. Berkshire. Aug. 6, 1968. ii+6+2+[2] p. 4° ([Project] M4305.09-3002.1.) [Abstract cards attached.]
- 14503 1049. Manikin measurements of noise attenuation provided by flight helmets; [by] John R. Forstall. Aug. 23, 1968. ii+17+2+[2] p. ii. 4° ([Project] MF 12.524.005-5020.1; NASC A34-531-561/69F12524402.) [Abstract cards attached.]

Naval Medical Field Research Laboratory, Camp Lejeune N.C.: [Reports]. ‡ D 206.19 : (nos.)

- 14504 v. 18, no. 3. Serum enzyme changes after physical exertion [with list of references; by] I. Dodd Wilson. Mar. 1968. v+13+[4] p. 4° (Work unit MR005.04-0082.1.)

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 65

GOVERNMENT PUBLICATIONS

Naval Medical Field Research Laboratory—Continued

- 14505 v. 18, no. 6. Physical fitness test standards for women marines [with list of references]; by Ann Jewett. June 1968. v+8+[4] p. 4° (Work unit MW022.01.04-8003.5.)
- 14506 v. 18, no. 7. Evaluation of physical training platoon, Officer candidate schools, Quantico, Va., report 1 [with list of references]; by Philip J. Rasch. July 1968. v+12+[4] p. 4° (Work unit MF12.524.004-8002.7.)
- 14507 v. 18, no. 9. Cryotherapy in treatment of snake envenomation [with list of references]; by Kenneth A. Gill, jr. July 1968. v+15+[4] p. il. 4° (Project MR011.01.)
- 14508 v. 18, no. 10. Serum uric acid levels and leadership in Marine Corps [with list of references]; by Philip J. Rasch [and others]. July 1968. v+10+[4] p. 4° (Work unit MF12.524.004-8002.8.)
- 14509 v. 18, no. 11. Proceedings of Conference on military importance of Mediterranean Small complex, Host, Entomology Division, Oct. 10-12, 1967. July 1968. vi+96+7+[6] p. 4° (Work unit MF12.524.009-8010.1.)
- 14510 v. 18, no. 14. Effect of selected soft drink mixes on germicidal properties of iodine tablets [with list of references]; by Ned S. Hurst and James S. Bird. Aug. 1968. v+15+[4] p. 4° (MF12.524.007-8007.1.)
- 14511 v. 18, no. 15. Nongonococcal urethritis associated with T strains of mycoplasma [with list of references]; by Maurice C. Shepard. Sept. 1968. v+17+[4] p. 4° (Work unit MF12.524.0009.8003.12.)
- 14512 v. 18, no. 16. Body armor in hot humid environment: pt. 1. Studies in unacclimatized men [with list of references]; by W. E. Yarger, L. H. Cronau, jr., and R. F. Goldman. Sept. 1968. v+12+[4] p. 4° (Work unit MF12.524.007-8008.1.)
- 14513 v. 19, no. 2. Development of NMFL telemetry system, 2d report [with list of references]; by Wade G. Holcomb and Philip J. Rasch. Jan. 1969. v+14+[4] p. il. 4° (Work unit MF12.524.004-8002.)
- 14514 v. 19, no. 5. Reevaluation of physical fitness test [with list of references]; by Philip J. Rasch. Feb. 1969. v+20+[3] p. 4° (Work unit MF12.524.004-8002.9.)

U.S. Naval Submarine Medical Center, Submarine Base, Groton, Conn.: Reports. ‡ D 206.10:(nos.)

- 14515 574. Speech intelligibility in stationary multipath channel [with list of references]; by Murray B. Sachs [and others]. [1969.] iii+6+2 p. il. 4° (Bureau of Medicine and Surgery research work unit MF12.524.004-9011D.03 and NavShips Systems Command task 5-23-18-08622 (USL-9-A-611-03-00).) [Joint report by personnel of Naval Underwater Sound Laboratory and Naval Submarine Medical Center.]
- 14516 577. Self-preparation stannous fluoride prophylactic technique in preventive dentistry, report after 2 years [with list of references]; by Francis P. Scola. Apr. 18, 1969. cover title, iii+5+2 p. il. 4° (Research work unit MR005.19-6027.02.) [This report has been designated Submarine Medical Research Laboratory report 577.]
- 14517 582. TRIC Agent urethritis, report of serological fluorescent antibody and associated findings [with bibliography]; by T. S. Kent. May 21, 1969. cover title, vii+22+2 p. 4° (Project MF099.01.01.01.)
- 14518 583. Step Test of motivation to excel [with list of references]; by Jimmie H. Johnson. May 26, 1969. cover title, 421-424+2 p. 4° (Research work unit MF12.524.003-9007.01.) [Reprinted from Aerospace medicine, v. 40, no. 4, Apr. 1969. Text on p. 2 of cover.]

MILITARY ACADEMY, West Point (Army), Defense Dept. West Point, NY 10996

USMA library bulletins. ‡ D 109.10:(nos.)

- 14519 7. Bibliography of military history, selected, annotated listing of references sources in United State Military Academy Library; compiled by J. Thomas Russell. 1969. [1]+xvii+57 p.
- 14520 8. Landmarks in science, great rare books from USMA library collections, by Edward P. Rich and Marie T. Capps. Spring 1969. [12] p. il.

MINES BUREAU, Interior Dept. Washington, DC 20240

- 14521 Asbestos; [by Paul W. Icke.] [1969.] [2]+10 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a : As 15/968
- 14522 Barite; [by W. Gene Diamond.] [1969.] [2]+6 p. [Preprint from Minerals yearbook 1968.] * Paper, 10c. I 28.37/a : B 239/968
- 14523 Beryllium; [by Henry C. Meeves]. [1969.] [2]+5 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a : B 463/968

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 14524 Bismuth; [by Harold J. Schroeder]. [1969.] [2]+4 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: B 542/968
- 14525 Boron; [by J. M. West]. [1969.] [2]+4 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: B 645/968
- 14526 Diatomite; [by Benjamin Petkof]. [1968.] [2]+3 p. [Preprint from Minerals yearbook, 1967.] * Paper, 5c. I 28.37/a: D 543/967
- 14527 Graphite; [by Lewis K. Weaver]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: G 767/968
- 14528 Helium; [by Billy J. Moore]. [1969.] [2]+4 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: H 367/968
- Information circulars. ● Item 637-A I 28.27: (nos.)
- 14529 S418. Statistical analysis of U.S. demand for phosphate rock, potash, and nitrogen [with bibliography]; by Olman Hee. [1969.] iv+55 p. il. 4° * Paper, 75c. L.C. card 70-603668
- 14530 S422. Mineral resource valuation for public policy; by Donald S. Colby and David B. Brooks. [1969.] [3]+34 p. 4° * Paper, 45c.
- 14531 S423. General computer program for solving nonlinear regression problems; by Jarrell C. Grout. [1969.] [3]+35 p. il. 4° * Paper, 45c.
- 14532 Kyanite and related minerals; [by James D. Cooper]. [1968.] [2]+4 p. [Preprint from Minerals yearbook, 1967.] * Paper, 5c. I 28.37/a: K 98/967
- 14533 Laramie Petroleum Research Center, welcome. [1969.] cover title, 17 p. il. 4° † I 28.2: L 32
- 14534 Magnesium; [by John W. Cole]. [1969.] [2]+6 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: M 274/2/968
- 14535 Magnesium compounds; [by John W. Cole]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: M 539/968
- 14536 Mercury; [by J. M. West]. [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: M 539/968
- 14537 Mineral industry of Bolivia; [by Robert A. Whitman]. [1969.] [2]+6 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: B 638/968
- 14538 Mineral industry of Burma; [by Arnold M. Lansche and K. P. Wang.]. [1969.] [2]+4 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: B 927/968
- 14539 Mineral industry of Colombia; [by Gordon W. Koelling.]. [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: C 717/968
- 14540 Mineral industry of Hungary; [by Joseph B. Huvos.]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: H 894/968
- 14541 Mineral industry of Pakistan; [by Charles L. Kimbell.]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: P 17/968
- 14542 Mineral industry of Sierra Leone; [by E. Shekarchi.]. [1969.] [2]+5 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: Si 17/968
- 14543 Mineral industry of Taiwan; [by R. A. Pense.]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: T 139/968
- 14544 Minor nonmetals; [by Benjamin Petkof.]. [1969.] [2]+8 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: N 731/968
- 14545 Molybdenum; [by John L. Morning.]. [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: M 739/968
- 14546 Nitrogen; [by John R. Lewis.]. [1969.] [2]+13 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: N 638/968

GOVERNMENT PUBLICATIONS

- 14547 Peat; [by Joseph J. Gallagher]. [1969.] [2]+10 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: P 329/968
- 14548 Petroleum refineries in United States and Puerto Rico, Jan. 1, 1969. Aug. 29, 1969. 15 p. il. 4° (Mineral industry surveys; Petroleum refineries, annual.) † Mines Bureau, Pittsburgh, PA 15213 I 28.17/2: 969
- Report of investigations. ● Item 637-A I 28.23: (nos.)
- 14549 7283. Materials handling research, hydraulic transportation of coarse solids [with bibliography]; by R. S. Fowkes and G. A. Wancheck. [Aug. 1969.] [2]+ii+36 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14550 7285. Tensile and stress-rupture properties of rolled Pb-Cd-Sb alloys [with list of references]; by M. M. Tilman. [1969.] [3]+11 p. il. 4B † Mines Bureau, Pittsburgh, PA 15213
- 14551 7287. Compressibility data for helium at 0° C and pressures to 800 atmospheres [with list of references]; by Ted C. Briggs, B. J. Dalton, and Robert E. Barbeau. [1969.] [2]+ii+54 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14552 7288. Chemical stabilization of uranium tailings at Tuba City, Ariz.; by Richard Havens and Karl C. Dean. [Aug. 1969.] [3]+12 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14553 7289. Electrical resistivity of hyperstoichiometric columbium and zirconium carbide materials at elevated temperatures [with list of references]; by Danton L. Paulson and Gene Asai. [Aug. 1969.] [2]+ii+30 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14554 7290. Metallization of iron ores with solid reductants; by M. M. Fine and R. B. Schluter. [Sept. 1969.] [3]+19 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14555 7292. Magnetic separation of minerals of low susceptibility and small particle size [with list of references]; by Foster Fraas. [Sept. 1969.] [2]+ii+14 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14556 7293. Mass spectrometry, residual gas analysis during vacuum melting [with list of references]; by W. E. Anable and E. D. Calvert. [Sept. 1969.] [3]+11 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14557 7294. Preparing alkali-alumina [with list of references]; by Laurance L. Oden and Paul E. Francoeur. [Sept. 1969.] [3]+16 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14558 7295. Bureau of Mines coal-fired gas turbine research project, test of combustor and ash separators for open-cycle plant; by Donald C. Strimbeck [and others]. [Sept. 1969.] [3]+12 p. il. 4B † Mines Bureau, Pittsburgh, PA 15213
- 14559 7296. Laboratory oil-recovery tests with ultrasonically formed emulsions [with list of references]; by C. A. Komar and H. A. W. Moore. [Sept. 1969.] [3]+14 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 14560 Salt; [by Benjamin Petkof.] [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: Sa 37/968
- 14561 Slag-iron and steel; [by John W. Thatcher.] [1969.] [2]+5 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: Sl 1/968
- 14562 Zirconium and hafnium; [by John G. Parker]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: Z 68/968

MOTOR CARRIER SAFETY BUREAU, Transportation Dept. Washington, DC 20591

- 14563 1968 analysis of motor carrier accidents involving vehicle defects or mechanical failure. Aug. 1969. [5]+17 p. 4° † TD 2.312: 968

NARCOTICS AND DANGEROUS DRUGS BUREAU, Justice Dept. Washington, DC 20530

NOTE.—The Narcotics and Dangerous Drugs Bureau was transferred from the Treasury Department to the Justice Department by Reorganization Plan 1 of 1968, effective Apr. 8, 1968.

- 14564 BNDD bulletin; [Robert J. Funesti, editor]. [Irregular.] † ● Item 968-B J 24.3: (v.nos.& nos.)
v. 1, no. 2—Aug. 1969—

NATIONAL ACADEMY OF SCIENCES Washington, DC 20418

- 14565 Drug efficacy study, report to Commissioner of Food and Drugs, Erratum sheet. [1969.] 1 p. 4° † ● Item 475 NA 1.2: D 84/erratum

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Washington, DC 20546

- 14566 Apollo program [posters no. 1-10. 40 x 30 in. 1969. [Posters are colored.]
* Paper, \$4.75 per set. NAS 1.43: Ap 4/2/no.1-10

NASA contractor report CR (series). NAS 1.26:(nos.)

- 14567 1330. Vaporization and decomposition kinetics of candidate re-entry blackout suppressants in low-pressure flames [with list of references]; by Shelby C. Kurz and Fredrik H. Raab, Aug. 1969, cover title, x+58 p. il. 4° [Prepared under contract NAS 1-7169 by Aerochem Research Laboratories, Inc., Princeton, N.J. Issued by originator as TP-181.] Φ Paper, \$3.00.
- 14568 1332. Method for analyzing aeroelastic stability of helicopter rotor in forward flight [with list of references]; by Peter Crimi, Aug. 1969, cover title, iii+107 p. il. 4° [Prepared under contract NAS 1-7411 by Rochester Applied Science Associates, Inc., Rochester, N.Y. Issued by originator as RASA report 68-10.] Φ Paper, \$3.00.
- 14569 1339. Aerodynamic effects of bulbous bases [with list of references]; by Lars E. Ericsson and J. Peter Reding, Aug. 1969, cover title, ix+110 p. il. 4° [Prepared under contract NAS 1-6450 by Lockheed Missiles & Space Company, Lockheed Aircraft Corporation, Sunnyvale, Calif. Issued by originator as LMSC report 4-17-68-4.] Φ Paper, \$3.00.
- 14570 1373. Analytical and experimental studies for predicting noise attenuation in acoustically treated ducts for turbofan engines [with list of references]; by Ernest Feder and Lee Wallace Dean III, Sept. 1969, cover title, xiii+99 p. il. 4° [Prepared under contract NAS 1-7129 by Pratt and Whitney Aircraft Division, United Aircraft Corporation, East Hartford, Conn. Issued by originator as report PWA-3486.] Φ Paper, \$3.00.
- 14571 1381. Characteristics of thermionic converter with fluoride vapor deposited tungsten emitter etched to perforationally expose 110 crystal planes [with list of references]; by V. C. Wilson and J. Lawrence, Aug. 1969, cover title, v+113 p. il. 4° [Prepared under contract NAS 3-8511 by General Electric Company, Schenectady, N.Y.] Φ Paper, \$3.00.
- 14572 1383. Experimental study of electron transmission and bremsstrahlung production [with lists of references]; by D. H. Rester, Aug. 1969, cover title, v+[1]+138 p. il. 4° [Prepared under contract NAS 8-21055 by Ling-Temco-Vought, Inc., Dallas, Tex. Issued by originator as report 0-71100/9R-1.] Φ Paper, \$3.00.
- 14573 1385. Manipulation errors in finite element analysis of structures [with list of references]; by R. J. Melosh, and E. L. Palacoi, Aug. 1969, cover title, iv+141 p. il. 4° [Prepared under contract NAS 5-10369 by Philco-Ford Corporation, Palo Alto, Calif.] Φ Paper, \$3.00.
- 14574 1393. Experimental investigation of magneto-aerodynamic flow around blunt bodies [with list of references]; by S. Krane, M. C. Yuen, and A. B. Cambel, Aug. 1969, cover title, xiv+147 p. il. 4° [Prepared under grant NSG-547 by Northwestern University, Evanston, Ill.] Φ Paper, \$3.00.
- 14575 1396. Design of strapdown gyroscopes for dynamic environment, interim scientific report 2 [with list of references]; by Arthur A. Sutherland, Jr., and William S. Beebe, Aug. 1969, cover title, xv+175 p. il. 4° [Prepared under Contract NAS 12-508 by Analytic Sciences Corporation, Reading, Mass. Issued by originator as report TR-101-4.] Φ Paper, \$3.00.
- 14576 1397. Survey of current debugging concepts [with bibliographies]; by Wallace Koehner, Aug. 1969, cover title, [101 p. il. 4° [Prepared under contract NAS 5-9756-99 by Wolf Research and Development Corporation, Bladensburg, Md.] Φ Paper, \$3.00.
- 14577 1398. Laboratory experiments on reverted rubber friction [with list of references]; by G. H. Nybakken, R. J. Staples, and S. K. Clark, Aug. 1969, cover title, viii+54 p. il. 4° [Prepared under grant NGR-23-005-010 by University of Michigan, Ann Arbor, Mich. Issued by originator as technical report 7.] Φ Paper, \$3.00.
L.C. card 77-603344
- 14578 1401. Design of Brayton rotating unit on rolling-element bearings; by R. Cohen and J. Clausi, Aug. 1969, cover title, ix+89 p. il. 4° [Prepared under contract NAS 3-10949 by Pratt & Whitney Aircraft, Division of United Aircraft Corporation, East Hartford, Conn.] Φ Paper, \$3.00.
- 14579 1407. Study of ferromagnetic liquid [with list of references]; by Robert Kalser and Ronald E. Rosenweig, Aug. 1969, cover title, x+91 p. il. 4° [Prepared under contract NASW-1581 by Avco Corporation, Lowell, Mass.] Φ Paper, \$3.00.
L.C. card 70-603282
- 14580 1408. Requirements study for biotechnology laboratory for manned earth orbiting missions: v. 1, Results, recommendations, and requirements; by L. T. Kail, Aug. 1969, cover title, xiii+160 p. il. 4° [Prepared under contract NAS 7-518 by McDonnell Douglas Corporation, Huntington Beach, Calif. Issued by originator as report DAC 58155.] Φ Paper, \$3.00.
- 14581 1409. Requirements study for biotechnology laboratory for manned earth orbiting missions: v. 2, Summary of individual experiments requirements; by L. T. Kail, Aug. 1969, cover title, vii+200 p. 4° [Prepared under contract NAS 7-518 by McDonnell Douglas Corporation, Huntington Beach, Calif. Issued by originator as report DAC-58156.] Φ Paper, \$3.00.

Φ For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 69

GOVERNMENT PUBLICATIONS

NASA contractor report CR (series)—Continued

- 14582 1410. Investigation of turbulent wind field below 150M altitude at Eastern Test Range [with lists of references]; by Alfred K. Blackadar [and others]. Aug. 1969, cover title, [1]+xi+92 p. il. 4° [Prepared under contract NAS 8-21140 by Pennsylvania State University, University Park, Pa.] Φ Paper, \$3.00.
- 14583 1411. Nonequilibrium gasdynamics [with list of references]; by William S. Watt. Aug. 1969, cover title, v+35 p. il. 4° [Prepared under contract NASR-109 by Cornell Aeronautical Laboratory, Inc., Buffalo, N.Y. Issued by originator as CAL report AD-1689-A-10.] Φ Paper, \$3.00.
- 14584 1412. Method of deriving orbital perturbing parameters from onboard optical measurements of ejected probe or natural satellite [with list of references]; by C. B. Grosch and H. R. Paetzniek. Aug. 1969, cover title, vii+93 p. il. 4° [Prepared under contract NAS 1-7540 by Control Data Corporation, Minneapolis, Minn. Issued by originator as control data project 9580.] Φ Paper, \$3.00.
- 14585 1414. Evaluation of configuration changes on optimum structural designs for Mars entry capsule [with list of references]; by Gerald A. Cohen. Aug. 1969, cover title, vii+47 p. il. 4° [Prepared under contract NAS 1-5554-5 by Philco-Ford Corporation, Newport Beach, Calif.] Φ Paper, \$3.00.
- 14586 1415. Development of barium chemical release system [with list of references]; by C. S. Stokes, E. W. Smith, and W. J. Murphy. Aug. 1969, cover title, ix+37 p. il. 4° [Prepared under contract NAS 1-6199 and NAS 1-7070 by Research Institute of Temple University, Philadelphia, Pa.] Φ Paper, \$3.00.
- 14587 1416. Characteristics of thermionic converter with chloride vapor deposited tungsten emitter (110) and nickel collector [with list of references]; by V. C. Wilson and S. P. Podkulski. Aug. 1969, cover title, v+33 p. il. 4° [Prepared under contract NAS 3-8511 by General Electric Company, Schenectady, N.Y.] Φ Paper, \$3.00.
- 14588 1421. Transient response of coupled acousto-mechanical systems [with list of references]; by A. Craggs. Aug. 1969, cover title, [1]+80 p. il. 4° [Prepared under grant NGR 52-025-003 by University of Southampton, Southampton, England.] Φ Paper, \$3.00.
- 14589 1424. Structural optimization of sandwich and ring-stiffened 120 degree conical shells subjected to external pressure [with list of references]; by Gerald A. Cohen. Aug. 1969, cover title, vii+66 p. il. 4° [Prepared under contract NAS 1-5554-6 by Philco-Ford Corporation, Space and Re-entry Systems Division, Newport Beach, Calif.] Φ Paper, \$3.00.
- 14590 1425. Properties of nonaqueous electrolytes [with list of references]; by Rudolf Keller [and others]. Aug. 1969, cover title, xiii+241 p. il. 4° [Prepared under contract NAS 3-8521 by ROCKETDYNE, Division of North American Rockwell Corporation, Canoga Park, Calif.] Φ Paper, \$3.00. L.C. card 70-603567.
- 14591 1428. General aviation pilot reactions to and opinions on grooved runways; by George E. Cranston. Aug. 1969, cover title, [1]+26 p. 4° [Prepared under contract NAS 1-8668 by Flight Safety Foundation, Arlington, Va.] Φ Paper, \$3.00.

NASA picture sets.

NAS 1.43/2: (nos.)

- 14592 3. NASA space art—"Eyewitness to space". 1969, 12 color prints, 16 x 20 in. of 20 x 16 in. [Issued in envelope.] * Paper, \$2.75 per set.
- 14593 4. Apollo—"First manned lunar landing". 1969, 12 color prints, each 11 x 14 in. or 14 x 11 in. [Issued in envelope.] * Paper, \$1.75 per set.
- 14594 5. Apollo—"Man on the moon". 1969, 16 x 20 in. [One color print issued in envelope.] * Paper, \$1.00.

NASA SP (series).

NAS 1.21: (nos.)

- 14595 164. Thermal radiation heat transfer: v. 1, Blackbody, electromagnetic theory, and material properties, by Robert Siegel and John R. Howell, 1968, errata. [1969.] 1 p. \dagger
- 14596 174. Conference on electromagnetic exploration of moon, report of Program Evaluation Committee, results of conference held at Ames Research Center, at Moffett Field, Calif., June 11-13, 1968 [with list of references]. 1969. iii+24 p. il. Φ Paper, \$3.00. L.C. card 75-603278
- 14597 184. Surveyor program results [with lists of references]; compiled by Surveyor Program, Lunar and Planetary Programs Division, Office of Space Science and Applications. 1969. ix+425 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) * Paper, \$4.75. \bullet Item S30-I L.C. card 68-62647
- 14598 195. Significant accomplishments in science, Goddard Space Flight Center, 1968, proceedings of symposium held at NASA Goddard Space Flight Center, Jan. 10, 1969; prepared by Goddard Space Flight Center. 1969. viii+188 p. il. (Scientific and Technical Information Division, Office of Technology Utilization.) [Some illustrations are colored.] Φ Paper, \$3.00. L.C. card 79-603591
- 14599 3045. Compressed gas handbook, 1969, errata. [June 20, 1969.] 1 p. 4° \dagger

*For Sale by Superintendent of Documents

\dagger Distribution Made by Issuing Office

Φ Official Use. Not Available

- 14600 3049. Computer-aided filter design manual [with bibliography]; Sidney Gussow and Glenn Weathers. 1969. vi+101 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) [Prepared under contract for NASA by Sperry Rand Corporation, Huntsville, Ala.] Φ Paper, \$1.25. ● Item 830-1
L.C. card 75-601301
- 14601 NASA special publications, currently available, fall 1969. [1969.] cover title, 48 p. il. [Text on p. 2 of cover.] † NAS 1.9/2: Sp 3/969-2
NASA technical note TN (series) NAS 1.14: D-(nos.)
- 14602 D-4342. Errata 2. Computing program for axial distribution of aerodynamic normal-force characteristics for axisymmetric multistage launch vehicles, by Ragan B. Madden, Mar. 1968. [June 27, 1969.] 1 p. 4° †
- 14603 D-5091. FORTRAN program for calculating velocities in magnified region on blade-to-blade stream surface of turbo-machine; by Theodore Katsanis and William D. McNally, Apr. 1969. Errata. [June 6, 1969.] 1 p. 4° †
- 14604 D-5166. Infrared spectral irradiance measurements in space environment simulator, John F. Rogers, June 1969, erratum. [July 31, 1969.] [4] p. il. 4° †
- 14605 D-5190. Effects of differing amounts training and monochromatic targets on sextant sighting performance [with list of references]; by Emmett C. Lampkin and Robert J. Randle, Aug. 1969. cover title, [1]+9 p. il. 4° Φ Paper, \$3.00.
- 14606 D-5268. Attitude stability of class of partially flexible spinning satellites; by Thomas W. Flatley, Aug. 1969. cover title, iii+15 p. il. 4° Φ Paper, \$3.00.
- 14607 D-5279. Effects of cyclic heating and thermal shock on hafnia stabilized with calcia, and magnesia, and yttria [with list of references]; John D. Buckley and David R. Wilder, Aug. 1969. cover title, [1]+41 p. il. 4° Φ Paper, \$3.00.
- 14608 D-5297. Flow-field measurements downstream of protuberances on flat plate submerged in turbulent boundary layer at Mach 2.49 and 4.44 [with list of references]; by Lana M. Couch, July 1969. cover title, [1]+135 p. il. 4° Φ Paper, \$3.00.
- 14609 D-5304. Development of weld quality monitor [with bibliography]; by J. G. Etzel and J. A. Munford, Aug. 1969. cover title, iii+8 p. il. 4° Φ Paper, \$3.00.
- 14610 D-5314. Subsonic performance characteristics of large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system [with list of references]; by Francis J. Capone and Harry T. Norton, jr. Aug. 1969. cover title, [1]+276 p. il. 4° Φ Paper, \$3.00.
- 14611 D-5316. Subsonic aerodynamic characteristics of large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system at angle of attack [with list of references]; by Francis J. Capone, Aug. 1969. cover title, [1]+62 p. il. 4° Φ Paper, \$3.00.
- 14612 D-5332. Magnetospheric duct propagation research using Alouette-2 top-side-sounder observations [with list of references]; by Jayaram Ramasastry and Edward J. Walsh, Aug. 1969. cover title, [1]+73 p. il. 4° Φ Paper, \$3.00.
- 14613 D-5334. Supersonic aerodynamic characteristics and shock stand-off distances for large-angle cones with and without cylindrical afterbodies [with list of references]; by James F. Campbell, Aug. 1969. cover title, [1]+96 p. il. 4° Φ Paper, \$3.00.
- 14614 D-5344. Investigation of isothermal, compressible flow across rotating sealing dam [pt. 1] 1. Analysis [with list of references]; by John Zuk and Lawrence P. Ludwig, Sept. 1969. cover title, ii+34 p. il. 4° Φ Paper, \$3.00.
- 14615 D-5358. Fixed-base simulator pilot rating surveys for predicting lateral-directional handling qualities and pilot rating variability [with list of references]; by Lawrence W. Taylor, jr. and Kenneth W. Hiff, Aug. 1969. cover title, [1]+102 p. il. 4° Φ Paper, \$3.00.
- 14616 D-5361. Analysis of lateral-directional stability characteristics of twin-jet fighter airplane at high angles of attack [with list of references]; by Joseph R. Chambers and Ernie L. Anglin, Aug. 1969. cover title, [1]+47 p. il. 4° Φ Paper, \$3.00.
- 14617 D-5364. Wind-tunnel investigation of STOL aircraft configuration equipped with external-flow jet flap [with list of references]; by Lysle P. Parlett and James P. Shivers, Aug. 1969. cover title, [1]+85 p. il. 4° Φ Paper, \$3.00.
- 14618 D-5367. Failure criteria for filamentary composites [with list of references]; by Christos C. Chamis, Aug. 1969. cover title, ii+30 p. il. 4° Φ Paper, \$3.00.
- 14619 D-5370. Tagged arithmetic; by Paula J. Bettinger, Andrew M. Manos, and Betty Jo Armstead, Aug. 1969. cover title, ii+18 p. 4° Φ Paper, \$3.00.
- 14620 D-5371. Longitudinal mass-spring modeling of launch vehicles [with list of references]; by Rudolf F. Glaser, Aug. 1969. cover title, viii+37 p. il. 4° Φ Paper, \$3.00.
- 14621 D-5373. Computer program for viscous, isothermal compressible flow across sealing dam with small tilt angle [with list of references]; by John Zuk and Patricia J. Smith, Aug. 1969. cover title, ii+87 p. il. 4° Φ Paper, \$3.00.

GOVERNMENT PUBLICATIONS

NASA technical note TN (series)—Continued

- 14622 D-5374. Causes, measurement, and elimination of fuel-element fission product leakage at NASA Plum Brook Reactor [with list of references]; by A. Bert Davis, and Richard H. Brickley. Aug. 1969. cover title, ii+26 p. il. 4° Φ Paper, \$3.00.
- 14623 D-5375. Effect of injection element radial distribution and chamber geometry on acoustic-mode instability in hydrogen oxygen rocket [with list of references]; by John P. Wanhainen and C. Joe Morgan. Aug. 1969. cover title, ii+43 p. il. 4° Φ Paper, \$3.00.
- 14624 D-5376. Oxidation and thermal fatigue cracking of nickel- and cobalt-base alloys in high velocity gas stream [with list of references]; by James R. Johnston and Richard L. Ashbrook. Aug. 1969. cover title, ii+48 p. il. 4° Φ Paper, \$3.00.
- 14625 D-5377. Experimental and theoretical turbulent boundary layer development in Mach 4.4 water-cooled conical nozzle [with list of references]; by Donald R. Boldman, James F. Schmidt, and Robert C. Ehlers. Aug. 1969. cover title, ii+41 p. il. 4° Φ Paper, \$3.00.
- 14626 D-5378. Aerodynamic characteristics in pitch of 1/7-scale model of 2- and 3-stage rocket configuration at Mach numbers of 0.4 to 4.63 [with list of references]; by William F. Hinson, Richard A. Langhans, and Roger H. Fournier. Aug. 1969. cover title, [1]+40 p. il. 4° Φ Paper, \$3.00.
- 14627 D-5379. Aerodynamic interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers of 3 and 6 [with list of references]; by John P. Decker. Aug. 1969. cover title, [1]+85 p. il. 4° Φ Paper, \$3.00.
- 14628 D-5380. Molecular orientation and mechanical anisotropy in polyethylene, polypylene, and poly(ethylene terephthalate) films [with list of references]; by Howard L. Price. Aug. 1969. cover title, [1]+19 p. il. 4° Φ Paper, \$3.00.
- 14629 D-5382. Some liquid oxygen/liquid hydrogen explosive effects in controlled failure-mode tests [with list of references]; by Richard W. High. Sept. 1969. cover title, v+28 p. il. 4° Φ Paper, \$3.00.
- 14630 D-5383. Use of six-degrees-of-freedom motion simulator for VTOL hovering tasks [with list of references]; by Emmett B. Fry, Richard K. Greif and Ronald M. Gerdes. Aug. 1969. cover title, [1]+26 p. il. 4° Φ Paper, \$3.00.
- 14631 D-5385. Analysis of total-pressure loss and airflow distribution for annular gas turbine combustors [with list of references]; by Robert R. Tacina and Jack Grobman. Aug. 1969. cover title, ii+42 p. il. 4° Φ Paper, \$3.00.
- 14632 D-5387. Gaseous-hydrogen pressurant requirements for discharge of liquid hydrogen from 3.96 meter-(13 ft-) diameter spherical tank [with list of references]; by Robert J. Stochl [and others]. Aug. 1969. cover title, ii+60 p. il. 4° Φ Paper, \$3.00.
- 14633 D-5388. Analysis of dynamic performance limitations of fast response (150 to 200 Hz) electrohydraulic servos [with list of references]; by John R. Zeller. Aug. 1969. cover title, ii+25 p. il. 4° Φ Paper, \$3.00.
- 14634 D-5389. Influence of various fabrication methods on compressive strength of titanium skin-stringer panels [with list of references]; by Richard A. Pride, Dick M. Royster, and James E. Gardner. Aug. 1969. cover title, [1]+42 p. il. 4° Φ Paper, \$3.00.
- 14635 D-5390. Effect of stress ratio on fatigue-crack growth in 7075-T6 and 2024-T3 aluminum-alloy specimens [with list of references]; by C. Michael Hudson. Aug. 1969. cover title, [1]+29 p. il. 4° Φ Paper, \$3.00.
- 14636 D-5391. Chemical equilibrium of ablation materials, including condensed species [with list of references]; by C. W. Stroud and Kay L. Brinkley. Aug. 1969. cover title, [1]+41 p. il. 4° Φ Paper, \$3.00.
- 14637 D-5392. Experimental pressure distributions for family of blunt bodies at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15° [with list of references]; by Robert L. Stallings, jr., and Dorothy T. Howell. Aug. 1969. cover title, [1]+85 p. il. 4° Φ Paper, \$3.00.
- 14638 D-5394. Simplified analytical model for use in design of pump-inlet accumulators for prevention of liquid-rocket longitudinal oscillation (pogo) [with lists of references]; by William Lewis. Aug. 1969. cover title, ii+36 p. il. 4° Φ Paper, \$3.00.
- 14639 D-5395. Solid-propellant combustion instability and role of velocity coupling [with list of references]; by Louis A. Povinelli. Aug. 1969. cover title, ii+49 p. il. 4° Φ Paper, \$3.00.
- 14640 D-5398. Red-shift-magnitude relation and observational data [with list of references]; by Windsor L. Sherman. Aug. 1969. cover title, [1]+25 p. il. 4° Φ Paper, \$3.00.
- 14641 D-5402. FORTRAN program for machine computations of group tables of finite groups [with list of references]; by Gabriel Allen, David D. Evans, and Paul Swigert. Sept. 1969. cover title, ii+41 p. il. 4° Φ Paper, \$3.00.
- 14642 D-5404. Experimental measurements of expanding storable-propellant products simulated by combustion of gaseous reactants [with list of references]; by Robert Friedman, Raymond E. Gangler, and Erwin A. Lezberg. Sept. 1969. cover title, ii+25 p. il. 4° Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14643 D-5405. Performance characteristics of 14.3-kilovolt-ampere modified Lundell alternator for 1200 Hertz Brayton-cycle space-power system [with list of references]; by David S. Repas and Richard A. Edkin. Sept. 1969. cover title, ii+26 p. il. 4° Φ Paper, \$3.00.
- 14644 D-5406. Evaluation of volume-ratio system for vacuum gage calibration from 10^{-8} to 10 torr [with list of references]; by Raymond Holanda. Sept. 1969. cover title, ii+21 p. il. 4° Φ Paper, \$3.00.
- 14645 D-5407. Computer plotting description of ion-molecule collisions with long-lived capture complexes [with list of references]; by John V. Dugan, jr., and James H. Rice. Sept. 1969. cover title, ii+28 p. il. 4° Φ Paper, \$3.00.
- 14646 D-5408. Static and dynamic stability derivatives of model of jet transport equipped with external-flow jet-augmented flaps [with list of references]; by Delma C. Freeman, jr., Sue B. Grafton, and Richard D'Amato. Sept. 1969. cover title, [i]+50 p. il. 4° Φ Paper, \$3.00.
- 14647 D-5411. Torque and leakage rates of various lubricated lip seal designs at peripheral velocity of 120 feet per second [with list of references]; by Lawrence P. Ludwig, Thomas N. Strom and Robert L. Johnson. Sept. 1969. cover title, ii+14 p. il. 4° Φ Paper, \$3.00.
- 14648 D-5412. Natural frequency of liquids in annular cylinders under low gravitational conditions [with list of references]; by Thomas L. Labus. Sept. 1969. cover title, ii+28 p. il. 4° Φ Paper, \$3.00.
- 14649 D-5420. Lubricants for inerted lubrication systems in engines for advanced aircraft [with list of references]; by William R. Loomis, Dennis P. Townsend, and Robert L. Johnson. Sept. 1969. cover title, ii+20 p. il. 4° Φ Paper, \$3.00.

NASA technical translation TT (series).

NAS 1.13/2: F-(nos.)

- 14650 F-534. Mechanisms with elastic couplings, dynamics and stability [with list of references]; by A. Ye. Kobrinsky. June 1969. cover title, vii+[2]+306 p. il. 4° [Translation of Mekhanizmy s Uprugimi Svyazami, Dinamika i ustoychivost, Nauka Press, Moscow, 1964.] Φ Paper, \$3.00.
- 14651 F-537. Transactions of 10th scientific conference of Institute of History of Natural Science and Technology [articles, with lists of references]; by Yu. V. Biryukov et al. Sept. 1969. cover title, v+[1]+62 p. il. 4° [Translation of Trudy X nauchnoy konferentsii aspirantov i mladshikh sotrudnikov instituta. Section of History of Aviation and Cosmonautics. Institute of History of Natural Science and Technology, Academy of Sciences USSR, Moscow, 1967.] Φ Paper, \$3.00.
- 14652 F-547. Investigation of vibration and stability of aircraft engine components [with list of references]; by G. S. Skubachevsky, editor. Aug. 1969. cover title, viii+[2]+117 p. il. 4° [Translations of Moscow Institute, no. 172, Mashinostroyeniye Press, Moscow, 1967.] Φ Paper, \$3.00. L.C. card 72-603403
- 14653 Opportunities for participation in space flight investigations, NHB 8030.1A: Memorandum change 25. Aug. 25, 1969. [1] p. 4° * Paper, \$1.75 (including basic handbook and supplementary material for one year); 50c. additional for foreign mailing. \bullet Item 830-F

NAS 1.18: Sp 1/2/ch.25

NATIONAL ARCHIVES AND RECORDS SERVICE, General Services Administration, Washington, DC 20408

General information leaflet.

- 14654 5. Genealogical records in National Archives. [1969.] [2]+12+[2] p. narrow 8° ([Publication 70-1.]) \dagger (Limited distribution). \bullet Item 569 GS 4.22: 5

National Archives microfilm publications: Pamphlet accompanying microcopy. (National Archives.) \dagger GS 4.20:(nos.)

- 14655 28. Diplomatic and consular instructions of Department of State, 1791-1801. 1969. cover title, 21 p.
- 14656 64. Letters sent by Director of United States Mint at Philadelphia, 1795-1817. 1969. cover title, 2 p.
- 14657 74. Letters of Trench Cox, Commissioner of Revenue, relating to procurement of military, naval, and Indian supplies, 1794-96. 1969. cover title, 3 p.
- 14658 259. Passenger lists of vessels arriving at New Orleans, 1820-1902; [prepared by Joyce D. Clarronchi.] 1969 cover title, 6 p.
- 14659 265. Index to passenger lists of vessels arriving at Boston, 1848-91; [prepared by Joyce D. Clarronchi.] cover title, 8 p.
- 14660 284. Despatches from United States consuls in Guaymas, Mexico, 1832-96; [prepared by Ralph E. Huss]. 1969. cover title, 5 p.
- 14661 716, 717. Records of Department of State relating to political relations between United States and Persia, 1921-29, and between Persia and other States, 1918-29; [prepared by Frank S. Soriano]. 1969. iii+9 p.

GOVERNMENT PUBLICATIONS

NATIONAL BUREAU OF STANDARDS, Commerce Dept. Gaithersburg, MD 20760

Building science series.

- 14662 23. Hall resistance of roofing products [with list of references; by] Sidney H. Greenfeld. Aug. 1969. [3]+9 p. il. 4° (Building Research Division, Institute for Applied Technology.) * Paper, 25c. ● Item 241-A
C 13.29/2:23

Handbook.

- 14663 44. [Specification, tolerance, and other technical requirements for commercial weighing and measuring devices adopted by National Conference on Weights and Measures, 3d edition 1965], 1969 replacement sheets. [1969.] [116] p. 12° [Issued in looseleaf form.] † ● Item 245
L.C. card 14-10563 C 13.11:44/3/rev. pages 969

- 14664 Measurements users bulletin, no. 7: A, Mechanics; B, Heat; supplement to NBS special publication 250, 1968 edition. Aug. 1969. [27] p. 4° [Issued with perforations.] † ● Item 247 C 13.10:250/3/supp.6

Monograph.

- 14665 25. Standard X-ray diffraction powder patterns: sec. 7 [Data for 81 substances, with list of references; by] H. E. Swanson [and others]. Sept. 1969. iv+186 p. il. 4° [Includes cumulative index to Circular 539, v. 1-10, and Monograph 25, sec. 1-7.] * Paper, \$1.50. ● Item 247-A
L.C. card 53-61386 C 13.44:25/sec.7

National standard reference data series, NSRDS-NBS ● Item 248-B C 13.48:(nos.)

- 14666 28. Molten salts, v. 2: sec. 1, Electrochemistry of molten salts, Gibb free energies and excess free energies from equilibrium-type cells [with list of references, by] G. J. Janz and Chr. G. M. Dijkhuis; sec. 2, Surface tension data [with list of references, by] G. J. Jan [and others]. Aug. 1969. v+111 p. il. 4° [Report was prepared at Molten Salts Data Center, Rensselaer Polytechnic Institute, Troy, N.Y.] * Paper, \$2.75.
L.C. card 68-60051
- 14667 29. Photon cross sections, attenuation coefficients, and energy absorption coefficients from 10 keV to 100 GeV [with list of references; by] J. H. Hubbell. Aug. 1969. iv+80 p. il. 4° (Center for Radiation Research.) * Paper, 75c.
L.C. card 73-600412

Product standard PS (series). ([Office of Engineering Standards Services.]) † ● Item 243 C 13.20/2:(nos.)

- 14668 1-66. Softwood plywood, construction and industrial, amendment 1. [1969.] 5 p. [Effective June 30, 1969.]
- 14669 1-66. Softwood plywood, construction and industrial, amendment 2. [1969.] 2 p. 4° [Effective Sept. 20, 1969.]

Special publications. ● Item 247 C 13.10:(nos.)

- 14670 236. Errata, to accompany 1969 edition, NBS frequency and time broadcast services, radio stations WWV, WWVH, WWVB, WWVL. [1969.] 1 p. †
- 14671 304A. Brief history and use of English and metric systems of measurement with chart of modernized metric system. 1968, revised 1969. [1969.] [4] p. il. 4° * Paper, 20c.

Technical notes. ● Item 249-A C 13.46:(nos.)

- 14672 379. Standard time and frequency, its generation, control, and dissemination from National Bureau of Standards Time and Frequency Division: [by] John B. Milton. Aug. 1969. iv+27 p. il. 4° (Frequency-Time Broadcast Services Section, Time and Frequency Division, Institute for Basic Standards.) * Paper, 35c.
L.C. card 70-603681
- 14673 489. Tables of response functions for silicon electron detectors [with list of references; by] M. J. Berger [and others]. Aug. 1969. v+57 p. il. 4° (Center for Radiation Research.) [This work was supported by National Aeronautics and Space Administration under contract R-80.] * Paper, 60c.
L.C. card 76-603656
- 14674 490. Thermal gradient effects on 13 flush mounted pressure transducers; [by] Leon Horn. Aug. 1969. ii+21 p. il. 4° (Electronic Technology Division, Institute for Applied Technology.) * Paper, 30c.
- 14675 491. Gravity measurements and standards laboratory [with list of references; by] D. R. Tate. Aug. 1969. [3]+8 p. 4° (Mechanics Division, Institute for Basic Standards.) * Paper, 25c.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**NATIONAL CENTER FOR SOCIAL STATISTICS, Health
Education, and Welfare Dept.
Washington, DC 20201**

NOTE.—The National Center for Social Statistics was established as part of Social and Rehabilitation Service to provide staff coordination, direction, and advice for all statistical activities and programs for SRS.

- 14676 Statistical report on social services, Form FS-2069, quarter ended Sept. 30, 1968. [1969.] [S] p. 4° (NCSS report E-1 (7-9/68).) [Issued with perforations.] † FS 17.628: 968-2

**NATIONAL COLLECTION OF FINE ARTS, Smithsonian
Institution, Washington, DC 20560**

- 14677 Werner Drewes woodcuts [exhibition, Aug. 15-Oct. 5, 1969], catalogue: by Caril Dreyfuss. Smithsonian Institution Press, 1969. 32 p. il. 4° [Department of] Prints and Drawings.) [Illustration on cover, Shimmering waters, is colored. Exhibition will be circulated by Smithsonian Institution Traveling Exhibition Service.] * Paper, 50c. ● Item 916 L.C. card 70-603440 SI 6.2: D 82

**NATIONAL ENDOWMENT FOR THE HUMANITIES, National
Foundation on the Arts and the Humanities, Washington, DC 20506**

- 14678 Fellowships and summer stipends for younger humanists. 1969. 1 p. f°, folded into oblong 16° (Division of Fellowships and Stipends.) † ● Item 831-B-1 NF 3.2: F 33/3
- 14679 Senior fellowships for 1970-71 [announcement; all lettered poster]. 1969. 1 p. 4° † ● Item 831-B-1 NF 3.2: F 33/2/970-71

**NATIONAL GALLERY OF ART, Smithsonian Institution
Washington, DC 20560**

- 14680 Report and studies in history of art 1968. [1969.] vi+[2]+235 p. il. 4° [Other illustrations on p. 1 and 4 of cover.] * Paper, \$2.75. ● Item 917 L.C. card 68-60053 SI 8.9: 968

**NATIONAL HIGHWAY SAFETY BUREAU, Transportation Dept.
Washington, DC 20591**

- 14681 Highway safety literature, compilation of issues numbered 1-52 issued Dec. 1967-Dec. 1968. July 1969. cover title, ii+430 p. 4° (HS 820 030.) [Pages number 13,204-211, 237-247, and 398-402 are intentionally left blank. Text on p. 2 of cover.] † ● Item 982-D-4 TD 2.210/3: 1-52

**NATIONAL INSTITUTES OF HEALTH, Health, Education,
and Welfare Dept., Bethesda, MD 20014**

- 14682 Acquisition and development of values, perspectives on research, report of conference, May 15-17, 1968. Washington, D.C.; [prepared by Leora Wood Wells.] [1969.] xiv+65 p. (National Institute of Child Health and Human Development.) † ● Item 507 FS 2.22: V 24 L.C. card 78-603678
- 14683 Biomedical engineering, development and production, report by B.E.R.C., Biomedical Engineering Resource Corporation, Ill., to National Institute of General Medical Sciences. [July 1969.] [5]+45+[1]+46-86 p. 4° ([Contract PH-43-68-1271.]) † ● Item 507 FS 2.22: B 52/10
- 14684 Chemotherapy fact sheet: Streptozotocin (NSC-85998) [with bibliographies]. Aug. 1969. 18 p. il. 4° (Program Analysis Branch, Chemotherapy, National Cancer Institute.) † ● Item 507 FS 2.22/63: St 8
- 14685 Danger, cancer quacks. [1969.] 12 p. narrow 8° † Research Information Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD 20014 FS 2.22: C 16/31

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 14686 Dietetic manual for metabolic kitchen units [with bibliography; by Edith A. Jones]. [Mar. 1969.] cover title, [5]+66 p. (Nutrition Department, Clinical Center.) * Stiffboard, \$3.50. ● Item 507-H
FS 2.22/15: D 56/2
- 14687 Film guide on reproduction and development, guide to selected films on reproductive and developmental biology for graduate and undergraduate programs in biomedical sciences [with list of references to literature]; prepared by National Institute of Child Health and Human Development. [1969.] [5] leaves+66 p. il. 4° * Paper, \$1.25. ● Item 507-H
L.C. card 76-603672 FS 2.22/15: R 29
- 14688 Gerontology Research Center, National Institute of Child Health and Human Development. [Revised Aug. 1969.] [1969.] cover title, [12] p. il. † ● Item 507
FS 2.22: G 31/5
- 14689 Health professions, scholarship program, career information. [Revised Apr. 1969.] [1969.] [6] p. il. narrow 8° ([Publication 1460: Bureau of Health Professions Education and Manpower Training, Division of Health Manpower, Educational Services, Student Loan and Scholarship Branch.]) † ● Item 507
FS 2.22: Sch 6/969
- 14690 Mental health considerations in public health, guide for training and practice, [with bibliographies]; edited by Stephen E. Goldston. May 1969. xv+252 p. ([Public Health Service publication 1898].) * Paper, \$1.25. ● Item 507-H
L.C. card 72-602903 FS 2.22/15: M 52/3
- 14691 National Heart Institutes national blood resource program; [prepared by Heart Information Center, National Heart Institute]. [1969.] [2]+33 p. il. † ● Item 507
FS 2.22: B 62/2
- 14692 NIH quarterly publications list. ([Publications and Reports Branch, Office of Information, Office of Director], Public Health Service.) † ● Item 506-A
July 1969— FS 2.22/13-9: (date)
- 14693 Perspectives on human deprivation, biological, psychological, and sociological [papers with bibliographies]. [1968.] xvii+346 p. 4° (National Institute of Child Health and Human Development.) [Detail from Mother, lithograph by Kathe Kollwitz, on cover.] * Paper, \$2.75. ● Item 507 (A 1969 reprint, xii+[1]+323 p. 8°, was sent to depository libraries.)
L.C. card 70-603475 FS 2.22: D 44
- 14694 Research advances in human transplantation. [1969.] cover title, 24 p. il. 4° * Paper, 35c. ● Item 507
FS 2.22: T 68/6
Resources analysis memo (series).
- 14695 12. Foundations and nonprofit research institutes, support of medical research and education, 1966, 1969. June 1969. 13 p. 4° (Office of Resources Analysis, Office of Associate Director for Program Planning and Evaluation.) †
FS 2.22/27: 12
- 14696 Smallfry smiles, guide for teaching dental health in community care programs; [prepared by Alice M. Johnson, Robert L. Weiss, Miki Wilson]. [1969.] cover title, [5]+54 p. il. ([Bureau of Health Professions Education and Manpower Training, Division of Dental Health.]) †
FS 2.22/15: Sm 4

NATIONAL LABOR RELATIONS BOARD Washington, DC 20570

- 14697 Court decisions relating to National Labor relations act, v. 14, May 1, 1963-June 30, 1964. 1969. xvi+1947 p. * Cloth, \$8.50. ● Item 825
L.C. card 44-41303 LR 1.14: 14
- 14698 33d annual report of National Labor Relations Board, fiscal year 1968. 1969. xi+244 p. il. * Paper, \$1.00. ● Item 824
L.C. card 37-26047 LR 1.1: 968

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

NATIONAL LIBRARY OF MEDICINE, Health, Education, and
Welfare Dept., Bethesda, MD 20014

- 14699 Dentistry, selected list of audiovisuals. Mar. 1968. cover title, 81+ [29]
p. (National Medical Audiovisual Center, Atlanta, Ga.) ‡
L.C. card 71-603419 FS 2.211/3: D 43

NATIONAL PARK SERVICE, Interior Dept.
Washington, DC 20242

- 14700 Canyonlands National Park. Utah. [Revised 1969.] [1969.] [2] p. il. 4°,
folded into narrow 24" size. † • Item 651 I 29.6: C 16/969
- 14701 Fort Point [National Historic Site, Calif., a proposal]. [June 1968.] 24
p. il. oblong 8" ‡ I 29.21: F 77 po/968
- 14702 Glacier Bay [National Monument, Alaska]. [1969.] 1 sheet (map on verso)
il. oblong 7" folded into oblong 48" * Paper, 15c. • Item 650
I 29.21: G 45/969

Historical handbook series.

- 14703 3. Ford's Theatre and House Where Lincoln Died [with list of suggested read-
ings]; by Stanley W. McClure. [Revised 1969.] [1969.] [6]+40+[6] p. il.
* Paper, 50c. • Item 649 I 29.58: 3/4
L.C. card 76-603534
- 14704 History of Star Spangled Banner from 1814 to present [with bibliog-
raphy]; by George J. Svejda. Feb. 28, 1969. [4]+vii+525 p. il. 4° (Di-
vision of History, Office of Archeology and Historic Preservation.)
[Includes lists of references in footnotes. Pages numbered 465-490 in-
clude 19 plates. Page numbered 490a has been duplicated. Title on cover
is: Fort McHenry National Monument and Historic Shrine, Baltimore,
Md.] ‡
L.C. card 76-603542 I 29.2: F 77 mc
- 14705 National Park Service Iowa Governor's book, 1969 [report to Governor
Robert D. Ray; prepared by Midwest Regional Office, National Park
Service, Omaha, Nebr.]. [1969.] cover title, 28 p. il. 4° ‡
I 29.75: Io 9/969
- 14706 National Park Service Minnesota Governor's book, 1969 [report to Gov-
ernor Harold E. LeVander; prepared by Midwest Regional Office, National
Park Service, Omaha, Nebr.]. [1969.] cover title, 28 p. il. 4° ‡
I 29.75: M 66/969
- 14707 National Park Service Missouri Governor's book, 1969 [report to Governor
Warren E. Hearnes; prepared by Midwest Regional Office, National
Park Service, Omaha, Nebr.] [1969.] cover title, 28 p. il. 4° ‡
I 29.75: M 69 o/969
- 14708 National Park Service Montana Governor's book [report to Governor
Forrest H. Anderson; prepared by Midwest Regional Office, National
Park Service, Omaha, Nebr.]. [1969.] cover title, 28 p. il. 4° ‡
I 29.75: M 76/969
- 14709 National Park Service Nebraska Governor's book, 1969 [report to Governor
Norbert T. Tieman; prepared by Midwest Regional Office, National Park
Service, Omaha, Nebr.]. [1969.] cover title, 28 p. il. 4° ‡
I 29.75: N 27/969
- 14710 National Park Service North Dakota Governor's book, 1969 [report to
Governor William L. Guy; prepared by Midwest Regional Office, Na-
tional Park Service, Omaha, Nebr.]. [1969.] cover title, 28 p. il. 4° ‡
I 29.75: N 81 d/969
- 14711 National Park Service South Dakota Governor's book, 1969 [report to
Governor Frank L. Farrar; prepared by Midwest Regional Office, Na-
tional Park Service, Omaha, Nebr.]. [1969.] cover title, 28 p. il. 4° ‡
I 29.75: So 8 d/969

•For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 14712 North Cascades National Park, Ross Lake & Lake Chelan National Recreation Areas, Wash. [1969.] [2] p. il. large 8° folded into narrow 24° size. † ● Item 651 I 29.6: N 81 c/2/969
- 14713 North Rim, Grand Canyon National Park, Ariz. [Revised 1969.] [1969.] [2] p. il. large 8°, folded into narrow 24° size. † ● Item 651 I 29.6: G 76/16/969
- 14714 Public use of National Park System, 1872-2000; by Ronald F. Lee, with foreword by George B. Hartzog, jr. Jan. 1, 1968. [5]+93 p. 4° † L.C. card 77-603545 I 29.2: P 96/2/872-2000
- 14715 Rocky Mountain [National Park, Colo.]. [1969.] 1 sheet (with map on verso) il. oblong 8°, folded into narrow 8° size. * Paper, 15c. ● Item 651 I 29.6: R 59/6/969

NATIONAL SCIENCE FOUNDATION Washington, DC 20550

- 14716 R & D in aircraft and missiles industry: [prepared by John R. Chirichiello]. [May 1969.] viii+17 p. il. 4° (NSF 69-15; [Office of Economic and Manpower Studies.]) * Paper, 40c. ● Item 834-C NS 1.2: Ai 7/957-68

NATIONAL TRANSPORTATION SAFETY BOARD, Transportation Dept. Washington, DC 20590

- 14717 Aircraft accident report: Ozark Air Lines, Inc., DC-9, N970Z, and Interstate Airmotive, Inc., Cessna 150F, N8669G, St. Louis, Mo., Mar. 27, 1968; adopted June 30, 1969. [1969.] [33] p. il. 4° (File 1-0012.) [Issued with perforations.] † Paper, \$3.00. TD 1.112: Sa 21
- 14718 National Transportation Safety Board. Sept. 1968. 3 p. 4° † TD 1.102: N 21
- 14719 National Transportation Safety Board annual report to Congress, 1968. [1969.] x+51 p. † L.C. card 68-61690 TD 1.101.968
- 14720 Study of collisions of radar-equipped merchant ships and preventive recommendations by National Transportation Safety Board [with bibliography]. [1969.] cover title, [1]+19 p.+[5] leaves il. 4° † TD 1.102: C 69/2
- 14721 Study of uniform reporting system for all modes of transportation in reporting incidents and accidents involving shipment of hazardous materials. Mar. 21, 1969. cover title, 15+[2] p. 4° † TD 1.102: R 29

NAVAL FACILITIES ENGINEERING COMMAND, Defense Dept. Washington, DC 20360

Design manual DM (series). [Issued in looseleaf form.]

- 14722 4, 34. [4, Electrical engineering: 34, Administrative facilities], Changes 2, July 1968-June 1969. [1969.] [100] p. il. 4° (NAVFAC DMs 4, 34.) * Paper, \$1.00. ● Item 418-A D 209.14/2: 4.34/ch.2
- NTTC course. [NAVFAC Technical Training Center, Navy Public Works Center, Norfolk, Va.]
- 14723 150. Basic pest control technology. Jan. 2, 1969. [1]+iv+238 p. il. 4° † D 209.16: 150

NAVAL OBSERVATORY, Defense Dept. Washington, DC 20350

Publications of Naval Observatory, 2d series, v. 19.

- 14724 pt. 2. [Results of observations made with 6-inch transit circle 1956-62, observations of sun, moon, and planets, catalog of 2,554 stars for 1950.0 corrections to FK4, GC, and N30; by A. N. Adams and D. K. Scott. 1968 [published 1969]. [1]+295-435 p. 4° † ● Item 398 D 213.10: 19/pt.2 L.C. card 72-603612

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**NAVAL OCEANOGRAPHIC OFFICE, Defense Dept.
Washington, DC 20390**

Informal report IR (series).

- 14725 69-28. Submarine sediment investigation in vicinity of planned Sealab III habitat [with list of references; by Newell T. Stiles and Richard S. Kessler]. July 1969. cover title, v+14+A-2+[2] p. il. 4° ([Project HF05-552-305, 709-EV-RMA.]) ‡ D 203.26/2 : 69-28

Publications.

D 203.22 : (nos.)

- 14726 10. Change 6, Aug. 2, 1969, loose leaf change pages for correcting Sailing directions for British Columbia, v. 1, 6th edition, 1960. [1969]. [445] p. il. 4° [Formerly 175. Includes list of effective pages.] † Paper, \$1.75. ● Item 378 (Rev. 1957)
- 14727 12. Change 1, Aug. 2, 1969, loose leaf change pages for correcting Sailing directions for Nova Scotia. [Bay of Fundy and Cape Breton Island], 10th edition, 1967. [1969.] [329] p. 4° [Includes list of effective pages. Issued in looseleaf form.] † Paper, \$1.75. ● Item 378 (Rev. 1957)
- 14728 50. Sailing directions for southwest coast of Africa, Cape Palmas to Cape of Good Hope, 5th edition, 1969. [1]+xiv+325+[2] p. il. 4° [Includes list of effective pages. Issued in looseleaf form.] † Paper, \$5.50 (including ring binder); \$1.00 contents only. ● Item 378 (Rev. 1957)
L.C. card 52-61640
- 14729 114. Change 18, List of lights and fog signals, British Isles, English Channel and North Sea; June 28, 1969. 1969. [204] p. [Includes list of effective pages.] † Paper, 50c. ● Item 378 (Rev. 1957)
- 14730 220. Navigation dictionary, 2d edition 1969. iv+292 p. * Cloth, \$3.00
● Item 378 (Rev. 1967)
L.C. card 71-603652
- 14731 221(128). Loran-A table, Gulf of Mexico, rate 3H1, 1968. cover title, xv+2-62 p. il. 4° [Issued in looseleaf form.] † Paper, 70c.
L.C. card 72-601216
- 14732 221(223). Loran-A table, South Pacific, rate 2L2, 1967. cover title, xv+2-113 p. il. 4° [Issued in looseleaf form.] † Paper, 70c.
L.C. card 76-603463
- 14733 221(1013). Loran-C table, East Coast, U.S.A., pair SS7-X, 1969. lxii+337 p. 4° [Issued in looseleaf form.] † Paper, \$2.25; with binder \$3.75.
L.C. card 73-603595
- 14734 221(2009). Loran-C table, Northwest Pacific, pair SS3-Z, 1967. lviii+462 p. il. 4° [Issued in looseleaf form.] † Paper, \$2.25; with binder, \$3.75.
L.C. card 72-603462
- 14735 606-d. Oceanographic Office observers manual: Ice observations, 2d edition, 1956, rev. 1968. [1968.] 42 p. il. 4° † Paper, 45c.
L.C. card 75-603286
- 14736 1301. Bathymetric atlas of northwestern Pacific Ocean; prepared by Scripps Institution of Oceanography. 1969. [1]+50 leaves, il. oblong f° [Charts compiled under direction of T. E. Chase and H. W. Menard in cooperation with Undersea Surveillance Oceanographic Center.] † Paper, \$2.00.
L.C. card 78-653331

**NAVAL PERSONNEL BUREAU, Defense Dept.
Washington, DC 20390**

- 14737 Abstracts of dissertations, theses, and research papers submitted by candidates for degrees, 1966-67. Dec. 1968. cover title, [3]+vii+143 p. 4° (Naval Postgraduate School, Monterey, Calif.) ‡
L.C. card 76-602892 D 208.14/6 : D 63/966-67
- 14738 Aviation structural mechanic S 3 & 2 [with reading list; prepared by Navy Training Publications Center]. [1969 edition.] [1969.] cover title, iv+414 p. il. 4° (Navy training course; NAVPERS 1030S-B.) ‡
● Item 404
L.C. card 61-60369 D 208.11 : Av 5/25/969
- 14739 Dental administration; Change 5. [1969.] [39] p. il. 4° (NAVPERS 10483.) [Issued in looseleaf form.] ‡ ● Item 403-A
D 208.6/3 : D 43/2/ch.5
- 14740 Manual of firefighting exercises; [prepared by Training Publications Division, Naval Personnel Program Support Activity, Wash., D.C., and Naval Damage Control Training Center, Naval Station, Philadelphia, Pa.]. June 1969. [1]+v+50 p. 4° (NAVPERS 92175C.) [Issued with perforations.] ‡ ● Item 403-A D 208.6/3 : F 51/969

GOVERNMENT PUBLICATIONS

NAVAL RESEARCH OFFICE, Defense Dept. Washington, DC 20390

- 14741 1968 annual report, Naval Research Laboratory, serving the Navy for 45 years [with list of contributions to science and technology]. [1969.] cover title, vi+138 p. il. 4° †
L.C. card 51-60868 D 210.17/2: 968

NRL reports. (Naval Research Laboratory.) D 210.8:(nos.)

- 14742 6S28. Density gradients near liquid-air interface [with list of references; by] James A. Adams, and Lyle B. Melzer. Mar. 31, 1969. cover title, ii+30 p. il. 4° (NRL problem G01-02C, project Airtask WF-08-125-703.) Φ Paper, \$3.00 (AD 686659).
- 14743 6S56. Tables of eigenvalues of wave equation in prolate spheroidal coordinates [with list of references; by] S. Hanish and B. King. Apr. 4, 1969. cover title, ii+60 p. 4° ([NRL problem S01-28, project RR 102-08-41-5225.]) Φ Paper, \$3.00 (AD 686658).
- 14744 6S62. Corrosion of metals in tropical environments: pt. 9, Structural ferrous metals, 16 years' exposure to sea and fresh water [with list of references; by] C. R. Southwell and A. L. Alexander. Apr. 23, 1969. cover title, ii+28 p. il. 4° ([NRL problem C03-11, project RR 007-08-44-5506.]) Φ Paper, \$3.00 (AD 687705).
- 14745 6S69. Dislocation pipe diffusion in silver single crystals [with list of references; by] R. G. Vardiman and M. R. Achter. Mar. 25, 1969. cover title, ii+12 p. il. 4° ([NRL problem M01-09, project RR 007-01-46-5407.]) Φ Paper, \$3.00 (AD 686661).
- 14746 6S72. Estimating diameter of plasma in propulsion motor plume [with list of references; by] J. P. Weston. May 22, 1969. cover title, ii+26 p. il. overlay, 4° ([NRL problem R07-07; project RF 17-344-401-4503.]) Φ Paper, \$3.00 (AD 691199).
- 14747 6S75. Fluorocarbon in epoxy plastics [with list of references; by] James E. Quick and James R. Griffith. Apr. 7, 1969. cover title, ii+14 p. il. 4° ([NRL problem C03-14, project RR 007-08-44-5508.]) Φ Paper, \$3.00 (AD 686652).
- 14748 6S81. Upwind-downwind-crosswind sea-clutter measurements [with list of references; by] John C. Daley [and others]. Apr. 14, 1969. cover title, ii+16 p. il. 4° (NRL problem R02-37; project A 31533/652/69R00801020.) Φ Paper, \$3.00 (AD 687403).
- 14749 6S86. Fire-retardant paint systems for nuclear submarine interiors [with list of references; by] T. R. Walton. May 2, 1969. cover title, ii+22 p. il. 4° ([NRL problem C08-18, project SF 35-433-002-13213.]) Φ Paper, \$3.00 (AD 688413).
- 14750 6S87. Study of hydrogen evolution during aqueous oxidation of mild steel [with list of references; by] S. H. Smith and M. C. Bloom. June 6, 1969. cover title, ii+16 p. il. 4° ([NRL problem M04-01, project SF 51-542-601-12430.]) Φ Paper, \$3.00 (AD 689738).
- 14751 6S90. Solubility and nickel in liquid sodium of high oxide content [with list of references; by] T. A. Kovachin and R. K. Miller. May 20, 1969. cover title, ii+14 p. il. 4° ([NRL problem C06-01, project RR 001-05-42-4850.]) Φ Paper, \$3.00 (AD 688780).
- 14752 6904. Optimum packing of hollow spheres in buoyancy materials; [by] P. W. Mast, L. A. Beaubien, and D. R. Mulville. June 30, 1969. cover title, iv+18 p. il. 4° ([NRL problems B01-03, F01-14, and F01-17; projects RR 003-02-41-5060, RR 009-03-45-5805, S4607-11896.]) Φ Paper, \$3.00 (AD 691200).
- 14753 6905. Measurement of fluoride activity and concentration in seawater using lanthanum fluoride electrode [with references; by] Theodore B. Warner. July 1, 1969. cover title, 12 p. il. 4° ([NRL problem G02-03, project RR 104-03-41-5052.]) [Text on p. 2 of cover.] Φ Paper, \$3.00 (AD 691201).
- 14754 6909. Microwave photodiodes, sensitivity as function of bias and geometry [with list of references; by] Alan C. MacPherson. July 9, 1969. cover title, i+10 p. il. 4° ([NRL problem R08-43, project RR 008-03-46-5672.]) Φ Paper, \$3.00 (AD 691202).
- 14755 6911. Surface chemistry of plastics reinforced by strong fibers [with list of references; by] W. A. Zisman. May 14, 1969. cover title, ii+28 p. il. 4° ([NRL problem C02-10, project RR 001-01-43-4751.]) Φ Paper, \$3.00 (AD 688103).

NAVY DEPARTMENT, Defense Dept. Washington, DC 20350

- 14756 Antarctic highlights, U.S. Navy Operation Deep Freeze [1969.] cover title, 21 p. il. narrow 8° ([U.S. Naval Support Force, Antarctica.]) [Page 21, on p. 3 of cover.] * Paper, 25c. ● Item 373-A D 201.15/2: An 8
- 14757 [This entry number not used.]

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14758 Department of Navy RDT & E management guide [with annotated references lists]. [Revised] July 1, 1969. [1969.] cover title, [273] p. il. 4° (NAVSO P-2457 (Rev. 7-69).) [Text on p. 2-3 of cover. Issued with perforations.] * Paper, \$2.50. ● Item 370-A D 201.6/12 : M 31/969
- 14759 Report of Operation Deep Freeze 68 [operating season] 1967-68, U.S. Navy task force 43. [May 10, 1968.] cover title, [108] p. il. 4° ([U.S. Naval Support Force, Antarctica.]) ‡ L.C. card 76-603648 D 201.15/2 : Op 2/968
- 14760 Report of Operation Deep Freeze 69 [operating season] 1968-69, U.S. Navy task force 43. [May 28, 1969.] cover title, [84] p. il. 4° ([U.S. Naval Support Force, Antarctica.]) ‡ L.C. card 77-603691 D 201.15/2 : Op 2/969

**ORDNANCE CORPS (Army), Defense Dept.
Washington, DC 20310**

HDL [Harry Diamond Laboratories] technical disclosure bulletins.
D 105.14/4 : (nos.)

- 14761 11. Universal wire stripper; [by] George Lemberos. Aug. 29, 1968. 1 p. il. 4° ‡
- 14762 12. Transistor series amplifier; [by] Thomas D. McCall. Sept. 10, 1968. 1 p. il. 4° ‡ Public Information Officer, U.S. Army Materiel Command, Washington, DC 20438
- 14763 13. Flashbulb spotting round for testing proximity fuzes; [by] Thomas I. Han-nold. May 28, 1969. 1 p. il. 4° ‡ Public Information Officer, U.S. Army Materiel Command, Washington, DC 20438

PACIFIC SOUTHWEST INTER-AGENCY COMMITTEE

NOTE.—The Pacific Southwest Inter-Agency Committee (PSIAC) was established in 1955, replacing the Pacific Southwest Inter-Agency Technical Committee. By executive action of President Johnson in 1966, PSIAC became a field committee of the Federal Water Resources Council. The nine Federal agencies on PSIAC are: Agriculture; Army; Commerce; Federal Power Commission; Health, Education, and Welfare; Housing and Urban Development; Interior; Labor; and Transportation.

- 14764 This land, this water, this west. [1969.] [12] p. il. narrow 8° ([Coordinated Planning Subcommittee.]) ‡ Y 3.P 11/2 : 2 L 22

**PATENT OFFICE, Commerce Dept.
Washington, DC 20231**

- 14765 Manual of patent examining procedure [3d edition, Nov. 1961, revised pages]. [Rev. July 21, 1969.] [1969.] [83] p. 4° [Includes instructions regarding revision no. 21. Issued in looseleaf form.] * Paper, \$8.50 (including basic manual and supplementary material for an indefinite period); \$2.50 additional for foreign mailing. C 21.15 : 961/rev.notice 21
- 14766 Q&A about plant patents, answers to questions frequently asked about plant patents. [1969.] [12] p. il. ‡ ● Item 254 C 21.2 : P 69/2

**POST OFFICE DEPARTMENT
Washington, DC 20260**

[Commemorative stamp posters.]

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

- 14767 6-cent football commemorative postage stamp will be first placed on sale Sept. 26, 1969, at New Brunswick, N.J. 1969. 10.5 x 8 in. P 1.26/2 : F 73/2
- 14768 6-cent professional baseball commemorative postage stamp will be first placed on sale at Cincinnati, Ohio, on Sept. 24, 1969. 1969. 10.5 x 8 in. P 1.26/2 : R 29
- 14769 10-cent moon landing commemorative air mail postage stamp will be first placed on sale at Washington, D.C., on Sept. 9, 1969. 1969. 10.5 x 8 in. P 1.26/2 : M 77

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 81

GOVERNMENT PUBLICATIONS

- 14770 Directory of international mail; Sept. 5, 1969. [1969.] [473] p. (POD publication 42.) [Includes transmittal letter 74. Issued in looseleaf form.]
 * Paper, \$5.00 (including basic book with binder and changes for an indefinite period); \$1.50 additional for foreign mailing; also sold without binder, \$2.50; \$1.00 additional for foreign mailing. ● Item S39
 P 1.10/5: 969

[Public information] PI-(series).

- 14771 19. Mail fraud laws . . . protecting consumers, investors, businessmen, medical patients, students. [June 1969.] [3]+20 p. il. (Chief Postal Inspector.)
 * Paper, 15c. ● Item S37-B P 1.36/2: 19/4
- 14772 Remarks by Postmaster General Winton M. Blount at 1st day ceremonies moon landing commemorative air mail stamp, Washington, D.C., at National Postal Forum III, Sept. 9, 1969. 1969. 4 leaves, 4° (Information Service, General release 135.) †
 P 1.27: B 62/2

PRESIDENT OF UNITED STATES Washington, DC 20501

- 14773 Making it, [stay ahead, stay in school]. [1969.] [8] p. il. 12° ([President's Council on Youth Opportunity.]) † President's Council on Youth Opportunity, 801 19th St., NW, Washington, DC 20506 ● Item S51-J
 Pr 36.8: Y S/M 28
- 14774 Physical fitness clinics 1969-1970. [1969.] [8] p. il. 4° (President's Council on Physical Fitness & Sports.) † President's Council on Physical Fitness and Sports, Room 4049, North HEW Bldg., Washington, DC 20201.
 ● Item S51-J Pr 36.8: P 56/C 61/969-70

PRISONS BUREAU, Justice Dept. Washington, DC 20537

- 14775 Basic data book, 1968. 10th edition. [1969.] cover title, [1]+iii+59 leaves, il. oblong 8° †
 L.C. card 75-600801 J 16.24: 968

PUBLIC BUILDINGS SERVICE, General Services Administration Washington, DC 20405

- 14776 Building operational review guide. June 11, 1969. cover title. [233] p. 4° (PBS P 5800.32; GSA handbook.) [Issued in looseleaf form with marginal index tabs on blank cardboard showing titles. Cancels PBS P 5800.1SA.] † ● Item 580
 GS 6.6/2: B 86

PUBLIC DOCUMENTS DIVISION, Government Printing Office Washington, DC 20402

- 14777 List of classes of United States Government publications available for selection by depository libraries. Revised July 1, 1969. [1969.] 28 leaves, 4° † ● All depositories
 GP 3.24: 969

PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept. Washington, DC 20201

- 14778 An ambulatory service data system [system of records and statistics for outpatient clinics as basis for administration and research, with list of references; by E. Richard Weinerman and others]. [May 1969.] cover title, ii+140 p. 4° ([Health Services and Mental Health Administration, Community Health Service, Division of Health Care Services, Arlington, Va.]) [Text on p. 2 of cover. Report to Division of Medical Care Administration, Public Health Service, of work completed under contract PH 108-65-56, from Office of Ambulatory Services, Yale-New Haven Hospital and Department of Epidemiology and Public Health, Yale University School of Medicine, New Haven, Conn.] † ● Item 485
 FS 2.2: Am 1/2

*For Sale by Superintendent of Documents
 †Distribution Made by Issuing Office
 ‡Official Use. Not Available

Analytical Reference Service study.

- 14779 34. Water metals no. 4 [with bibliographies; by] R. J. Lishka and J. H. Parker. 1969. xv+82 p. il. ([Publication 1910;]: Consumer Protection and Environmental Health Service, Environmental Control Administration, Cincinnati, Ohio 45202.) [Abstract cards attached.] † ● Item 483-F
FS 2.300/5: 34
- 14780 Annual statistical review, hospital and medical services, fiscal year 1967: Public Health Service Indian and Alaska native hospitals, contract hospitals, field health. Dec. 1967. iii+26 p. il. 4° (Division of Indian Health, Office of Program Planning and Evaluation, Program Analysis and Statistics Branch.) ‡
L.C. card 77-603273 FS 2.86/6: 967
- 14781 Be safe, be seen; let's shed some light on pedestrian safety. [1969.] [4] p. il. narrow 8° ([Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Community Environmental Management, Cincinnati, Ohio.]) * Paper, \$2.00 per 100; single copy, 5c. ● Item 485
FS 2.2: P 34/2
- 14782 Bibliography on suicide and suicide prevention [by] Norman L. Farberow. 1969. iii+[2]+203 p. 4° ([Publication 1979; Health Services and Mental Health Administration; National Institute of Mental Health.]) * Paper, \$1.75. ● Item 506-A
L.C. card 72-603470 FS 2.22/13: Su 3
- 14783 Classification of approved community health projects by broad areas of activity. Revised June 30, 1967. [1968.] [7]+xviii+187 p. 4° (Bureau of Disease Prevention and Environmental Control.) ‡ FS 2.2: C 73/17
- 14784 Control of domestic rats & mice [with list of selected references; by] Bayard F. Bjornson, Harry D. Pratt, and Kent S. Littig. 1956, revised 1968. vi+41 p. il. 4° (Publication 563; training guide, rodent control series, Consumer Protection and Environmental Health Service, Environmental Control Administration.) † ● Item 496-A
L.C. card 70-603527 FS 2.6/2: R 18
- 14785 Current listing of vital and health statistics series, PHS publication 1000, Dec. 31, 1968. [1969.] 6 p. 4° ([Office of Information], National Center for Health Statistics, Health Services and Mental Health Administration.) †
FS 2.85/2: list/968
- 14786 Definition and measurement of mental health [with list of references; by] S. B. Sells, editor. 1968 [published 1969]. [4]+280 p. il. ([Publication 1873; Health Services and Mental Health Administration, National Center for Health Statistics.]) [Symposium supported by contract 86-65-107.] * Cloth, \$3.00. ● Item 508
L.C. card 73-603674 FS 2.102: M 52
- 14787 Division of Indian Health, annual discharge summary, fiscal year 1965; [Prepared by] Program Analysis and Statistics Branch, Office of Program Planning and Evaluation. Jan. 1968. xxxiii+51 p. il. 4° (Bureau of Health Services.) ‡
L.C. card 77-603762 FS 2.86/7: 965
- [Emergency health series.]
- 14788 A-10. Emergency health services glossary. June 1969. [6]+101 p. il. 4° ([Publication 1971 A-10; Health Services and Mental Health Administration, Division of Emergency Health Services.]) * Paper, \$1.00. ● Item 486-E
L.C. card 71-603695 FS 2.302: A-10
- 14789 Emergency medical supplies, hospital reserve disaster inventory. [1969.] cover title, 16 p. il. oblong 24° (Division of Emergency Health Services.) † ● Item 485
FS 2.2: Em 3
- Environmental health series: Radiological health.
- 14790 RH-36. Evaluation of radium contamination in aircraft instrument repair facilities [with list of references]. May 1969. x+37 p. il. ([Publication 999-RH-36; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Radiological Health.]) [Abstract cards attached.] † ● Item 483-F
L.C. card 71-601118 FS 2.300: RH-36

GOVERNMENT PUBLICATIONS

Environmental health series: Water supply and pollution control. (Division of Water Supply and Pollution Control.)

- 14791 WP-38. Role on bottom-dwelling macrofauna in water pollution investigations [with bibliography]; by Lowell E. Kemp, William M. Ingram, and Kenneth M. Mackenthun. 1966. v+23 p. il. (Technical Services Branch, Robert A. Taft Sanitary Engineering Center, Publication 999-WP-38.) [Accompanied by abstract cards.] † Publications Office, Robert A. Taft Sanitary Engineering Center, Cincinnati, OH 45226 L.C. card 67-60116 FS 2.300: WP-38
- 14792 Federal Health Programs Service annual statistical summary, fiscal year 1968: pt. 2, Diagnostic and demographic data. [1969.] cover title xv+189 p. il. 4° ([Publication 1889-A.]; Health Services and Mental Health Administration, Federal Health Programs Service, Data Management Branch.) † ● Item 494-C L.C. card 75-601178 FS 2.18/2: 968/pt.2
- 14793 Influenza, NCDC fact sheet. [1969.] cover title, [11] p. il. narrow 8° ([Health Services and Mental Health Administration, National Communicable Disease Center, Atlanta, Ga.]) ‡ FS 2.60/2: In 3/2
- 14794 Kidney disease, prevention and control, guidelines for community programs of chronic disease control [with bibliography]. May 1969. iii+31 p. 4° (Health Services and Mental Health Administration, Kidney Disease Control Program, Division of Chronic Disease Programs, Regional Medical Programs Service, Arlington, Va.) * Paper, 40c ● Item 496-A L.C. card 78-603469 FS 2.6/2: K 54/2
- 14795 Kidney disease services facilities and programs in United States. May 1969. vi+229 p. ([Publication 1942]; Health Services and Mental Health Administration, Kidney Disease Control Program, Division of Chronic Disease Programs, Regional Medical Programs Service.) * Paper, \$1.00. ● Item 485 FS 2.2: K 54/6
- Mental health statistics: Series A, Mental health facilities report. (National Institute of Mental Health, Health Services and Mental Health Administration.)
- 14796 2. Patients in State and county mental hospitals 1967; [by Morton Kramer]. [1969.] iii+89 p. il. 4° ([Publication 1921; National Clearing House for Mental Health Information.]) * Paper \$1.00. ● Item 491-A L.C. card 78-603651 FS 2.53/2-2: A/2
- National Air Pollution Control Administration publication ADTD (series). (Consumer Protection and Environmental Health Service.)
- 14797 69-3. 1964 data tabulations and summaries, continuous air monitoring projects, National Air Surveillance Networks, Chicago, Cincinnati, Philadelphia, St. Louis, Washington, D.C. May 1969. vi+456 p. 4° † Office of Technical Information and Publications, National Air Pollution Control Administration, U.S. Department of Health, Education, and Welfare, 801 North Randolph Street, Arlington, VA 22203. ● Item 483-F L.C. card 73-603682 FS 2.93/3-2: 69-3
- 14798 National Communicable Disease Center foodborne outbreaks, annual summary, 1968. [1969.] cover title, [2]+40 p. il. 4° ([Enteric Diseases Section, Epidemiology Program, National Communicable Disease Center, Atlanta, Ga.]) [Text on p. 2 of cover.] † FS 2.60/18: 968
- 14799 Pictorial keys to arthropods, reptiles, birds and mammals of public health significance [with list of selected references]. [June 1969.] iv+192 p. il. 4° ([Publication 1955]; Health Services and Mental Health Administration, National Communicable Disease Center, Atlanta, GA.) [Issued in looseleaf form.] * Paper, \$2.25. ● Item 505-A. L.C. card 74-603677 FS 2.60/7: Ar 7/2
- 14800 Proceedings of Public Health Service cooperative Studies, Renal disease and hypertension: v. 6. 8th annual conferences, May 1969, Atlantic City, N.J. (Hypertension) and June 1969, Boston, Mass. (Pyelonephritis). [1969.] xi+123 p. 4° (Federal Health Programs Service.) † ● Item 485 L.C. card 65-61307 FS 2.2: R 29/2/v.6

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14801 Psychopharmacology bulletin, special issues: Studies on effectiveness of antidepressant drugs [with bibliography, by] Aaron Smith, Elizabeth Traganza, Grace Harrison; [editors Alice A. Leeds, David D. Swenson]. Mar. 1969. cover title, 53 p. 4° (National Institute of Mental Health, National Clearinghouse for Mental Health Information [Health Services and Mental Health Administration].) [Prepared by Psychopharmacology Research Branch. Text on p. 2 of cover.] * Paper, 55c. ● Item 507-Z-1 FS 2.22/29: An 8
- 14802 Psychotropic drugs and related compounds, supplement 1 (addenda and errata) [with list of references; by] Earl Usdin, and Daniel H. Efron. June 1969. [2]+148 p. il. ([Publication 1589-A; National Clearinghouse for Mental Health Information, Pharmacology Section, Psychopharmacology Research Branch, National Institute of Mental Health, Health Services and Mental Health Administration.] * Paper, 65c. ● Item 507 L.C. card 67-61617 FS 2.22: D 84/6/supp.1
- 14803 Report for consultation on Steubenville-Weirton-Wheeling air quality control region (Ohio, West Virginia). Aug. 1969. cover title, 46 p. il. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 483-E L.C. card 77-600866 FS 2.93/5: St 4
- 14804 Report on Federal-State-industry cooperative Savannah River water quality studies, 1956-65 [with selected bibliography]; by Savannah River Advisory Board. Nov. 1967 [published 1969]. [1]+xiii+173 p. il. 4° † ● Item 485 L.C. card 70-603609 FS 2.2: Sa 9/956-65
- 14805 Representative construction costs of Hill-Burton hospitals and related health facilities, Jan.-June 1968. [1969.] iii+69 p.+[2] leaves, oblong 12° (Division of Hospital and Medical Facilities, Architectural, Engineering, and Equipment Branch, Silver Spring, Md.) ‡ L.C. card 75-603531 FS 2.74/6: 968
- 14806 Schools offering nurse traineeships for full-time academic study, 1969-70, under professional nurse traineeship program of Public Health Service. [Revised July 1969.] [1969.] 20 p. (Supplement A to publication 1154-1; [Bureau of Health Professions Education and Manpower Training, Division of Nursing].) † ● Item 485 FS 2.2: N 93/38/supp.-2/969
- 14807 Smoker's self-testing kit [tests and interpretation of test scores; developed by Daniel Horn, and members of Clearinghouse staff]. [Revised June 1969.] [1969.] [12] p. ([Publication 1904, National Clearinghouse for Smoking & Health, Health Services and Mental Health Administration, Regional Medical Programs Service, Division of Chronic Disease Programs.]) * Paper, 10c. ● Item 496-A FS 2.6/2: Sm 7/3/969-2
- 14808 Sociologists and anthropologists, supply and demand in educational institutions and other settings; [prepared by Surveys Research Corporation, of Washington, D.C.]. 1969. x+164 p. il. 4° ([Publication 1884; Health Service and Mental Health Administration, National Clearinghouse for Mental Health]. National Institute of Mental Health, Division of Manpower and Training Programs, Manpower and Analytic Studies Branch.) * Paper, \$1.50. ● Item 507 L.C. card 75-603653 FS 2.22: So 1/7
- 14809 Summaries of solid wastes program contracts, July 1, 1965-June 30, 1968; [by] Clarence A. Clemous and Ralph J. Black. 1969. v+46 p. 4° ([Publication 1897]; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Solid Waste Management.) * Paper, 65c. ● Item 485 L.C. card 71-603557 FS 2.2: So 4/11/965-68
- 14810 Training institute of Environmental Control Administration, bulletin of courses, July 1969-Dec. 1970. 68+[12] p. il. 4° (Consumer Protection and Environmental Health Service.) ‡ FS 2.92/4: 969-70

GOVERNMENT PUBLICATIONS

Vital and health statistics: Series 1, Programs and collection procedures. (National Center for Health Statistics.)

- 14811 8. Plan and operation of Health Examination Survey of U.S. youths 12-17 years of age [with list of references]. Sept. 1969. vi+80 p. il. 4° ([Publication 1000, series 1, no. 8; Division of Health Examination Statistics.])
* Paper, 75c. ● Item 500-E
L.C. card 76-602407 FS 2.85/2:1/no.8

Vital statistics of United States, 1967. ([National Center for Health Statistics, Division of Vital Statistics.])

- 14812 v. 2. Mortality, pt. B, 1969. [4]+563 p. 4° * Cloth, \$6.50. ● Item 510
L.C. card 40-26272 FS 2.112:967/v.2/pt.B

PUBLIC ROADS BUREAU, Transportation Dept. Washington, DC 20591

- 14813 Balanced freeway design [with list of references]; by I. C. Jenkins, Chief, Design Branch, Highway Standards and Design Division, Bureau of Public Roads, presented at Kansas Highway Engineering Conference, Manhattan, Kans., Mar. 28, 1969. [1969.] 25 leaves, 4° ‡
TD 2.119:J 41

Highway planning technical report.

- 14814 13. Evaluation of bias in license plate traffic survey response [with one reference; by Howard McCann, Gary Maring]. July 1969. cover title, 16 p. il. 4° ‡
TD 2.120:13

- 14815 Literature references to highways and their environmental considerations. July 1, 1969. cover title, xiv+80 p. 4° [Environmental Development Division, Office of Right-of-Way and Location.] ‡
L.C. card 71-603293 TD 2.123:L 71

- 14816 New developments in highways, design, economics, environment, hydraulics, maintenance, management, materials, right-of-way, structures, traffic, newsbriefs for highway managers and practicing engineers. May 1969. [7] p. narrow large 8° ‡
TD 2.124:969

- 14817 Opportunities as professional highway engineer. Sept. 1968. [8] p. il. narrow 8° ‡
TD 2.102:H 53/968

- 14818 Proceedings, national conference, [AASHO], American Association of State Highway Officials, Committee on Electronics, Seattle, Wash., May 6-7, 1969 [papers, with lists of references]. May 1969. cover title, v+237 p. il. 4° ([Office of Research and Development.]) [Sponsored in cooperation with U.S. Department of Transportation, Federal Highway Administration, Bureau of Public Roads and Washington Department of Highways.] ‡ ● Item 265-G
L.C. card 68-61097 TD 2.125:969

- 14819 Rest area use study manual. May 1969. cover title, [1]+39+[14] p. 4° ‡
TD 2.108:R 31/969

- 14820 Skid resistance studies by Public Roads Bureau [paper]; by D. W. Loutzenheiser [and others], for presentation at Committee on Design, American Association of State Highway Officials, Minneapolis, Minn., Dec. 6, 1968. [1969.] [1]+9 p. 23 pl. 4° ‡
TD 2.102:Sk 3

- 14821 Structural systems in support of highway safety [with list of references]; by F. J. Tamanini and John G. Viner. [1969.] [2]+30 p. il. 4° [Structures and Applied Mechanics Division, Office of Research and Development.] [Prepared for presentation at American Society of Civil Engineer's national meeting on transportation engineering, Wash., D.C., July 21-25, 1969.] ‡
TD 2.102:St 8

- 14822 Tor-Shok, reusable energy absorbing protective barrier [with bibliography]; by Gerry Bley. May 1969. [61] p. il. 4° ‡
TD 2.102:T 63

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

RAILROAD RETIREMENT BOARD
Chicago, IL 60611

- 14823 Railroad Retirement Board, 1968 annual report for fiscal year. [1969.] vii+170 p. il. [Also issued as H. doc. 27, 91st Cong., 1st sess.] * Paper, \$1.00. ● Item 858
L.C. card 37-26201 RR 1.1: 968

RECLAMATION BUREAU, Interior Dept.
Washington, DC 20240

- 14824 Ainsworth unit, Nebr., Sandhills division, Missouri River Basin project. [1969.] 10 p. il. narrow 8° ‡ I 27.2: A1 6/969
- 14825 Application of strain gages in Bureau of Reclamation test programs; by Gilbert L. Butler. [1968.] cover title, [1]+13 leaves, 19 pl. 4° [Preprint of paper prepared for presentation at 1968 fall meeting of Western Regional Strain Gage Committee, Denver, Colo., Sept. 23-24, 1968.] ‡ I 27.2: St 8/3
- 14826 Asphaltic membranes for water seepage control; by L. M. Ellsperman and W. R. Morrison. [1969.] cover title, [1]+43 p. il. 4° (Office of Chief Engineer, Denver, Colo.) [Paper to be presented at symposium on New uses for asphalts Division of Petroleum Chemistry, Inc., American Chemical Society, Atlantic City, N.J., Sept. 8-13, 1968.] ‡ I 27.2: As 6
- 14827 Atmospheric water resources program, Project Skywater, special park range cooperative experiment no. 1, Jan. 15-Feb. 19, 1968, summary report. [1968.] cover title, vii+207 p. il. 9 pl. 4° ‡ I 27.2: Sk 9/3
- 14828 Colossal generating units at third powerplant, Grand Coulee Dam; by Carlos G. Bates. [1968.] [1]+6 leaves 4° [Paper presented at Western Water and Power Symposium, Los Angeles, Calif., Apr. 8-9, 1968.] (Office of Chief Engineer.) ‡ I 27.2: G 76/11
- 14829 Controlling expansion of desiccated clays during construction [with list of references]; by J. P. Bara. [1969.] cover title, 17+[10] leaves, 4° [Paper to be presented at 2d International Research and Engineering Conference on Expansive Clay Soils at Texas A&M University, College Station, Tex., Aug. 17-19, 1969.] ‡ I 27.2: C 57
- 14830 Coordination of water resources research, report of meeting between Agricultural Research Service, Department of Agriculture and Bureau of Reclamation, Department of Interior, Aug. 28 and 29, 1967. [1969.] [88] p. 4° (Office of Chief Engineer, Denver, Colo.) ‡ L.C. card 79-603646 I 27.2: W 29/8/967
- 14831 Davis Dam and powerplant. [1969.] [10] p. il. narrow 8° ‡ ● Item 660 I 27.2: D 29/3/969
- 14832 Equal opportunity in Bureau of Reclamation, affirmative program of manpower utilization. [1969.] [2]+iii+16 p. ‡ I 27.2: Eq 2/969
- 14833 Gamma probe calibration tests; by Joe M. Lara. Mar. 1968. [21] leaves, il. 4° (Office of Chief Engineer, Sedimentation Branch, Division of Project Investigations, Denver, Colo.) ‡ I 27.2: G 14
- 14834 Hungry Horse project [Mont.]. [1969.] [12] p. il. narrow 8° ‡ ● Item 660 I 27.2: H 89/3/969
- 14835 Improved appearance of power transmission facilities; by Edwin Rose and Dwight A. Covington. 1968. 42 leaves, il. 4° [Paper for Environmental Engineering Conference, Aesthetics in Power Projects session, Power Division of American Society of Civil Engineers, Chattanooga, Tenn., May 13-17, 1968.] ‡ I 27.2: P 87/5
- 14836 Project Skywater, first 7 years. [1969.] cover title, [4] p. (Office of Atmospheric Water Resources, Office of Chief Engineer, Denver, Colo.) ‡ I 27.2: Sk 9/2

GOVERNMENT PUBLICATIONS

- 14837 Project Skywater, proceedings: Skywater Conference 5, Scientific review plans and design of Colorado River basin pilot project, with appendix, design changes and decisions, atmospheric water resources program. Feb. 1969. [5]+xi+235+[23] p. il. 4° ([Office of Atmospheric Water Resources.]) ‡
L.C. card 77-603249 I 27.2: SK 9/969
- 14838 Reclamation lakes, region 2. [1969.] [2] p. il. oblong 8° folded into narrow 8° size. ‡ ● Item 660 I 27.2: R 24/14/969
[Research] report. (Water resources technical publication.)
- 14839 17. Soil as an engineering material [with list of references]; by Wesley G. Holtz. [1st printing 1969.] [1969.] vi+45 p. il. 4° * Paper, 55c.
● Item 664-J
L.C. card 75-603610 I 27.54: 17
- 14840 Spectral analysis, prototype study; by H. T. Falvey and D. L. King. [1969.] cover title, [1]+9 p. il. 8 pl. 4° (Office of Chief Engineer, Denver, Colo.) [Paper to be presented at annual Hydraulics Division Conference of American Society of Civil Engineers, Logan, Utah, Aug. 20-22, 1969.] ‡ I 27.2: Sp 3
- 14841 Sprinkler irrigation, soils, climate, and land classification [with list of literature cited]; by John T. Maletic. [1968.] cover title, 18 leaves, il. 4° [Paper for presentation at 1968 annual Technical Conference, Sprinkler Irrigation Association, Denver, Colo., Feb. 27, 1968.] ‡ I 27.2: Ir 7/14
- 14842 Statistical compilation of storage dams and reservoirs on Bureau of Reclamation projects. June 30, 1968. [37] leaves. ‡ I 27.2: St 7
- 14843 Value of desalted water for irrigation [joint research study with list of selected references]; prepared by Offices of Chief Engineer and Region 3. June 30, 1969. [5]+xii+158 p. il. 4° (Research contract 14-01-0001-1241.) [Prepared for Office of Saline Water.] ‡
L.C. card 79-603689 I 27.2: D 45/3
- 14844 Water for future of Kansas, Kansas basins project: interim report 2 [Investigation schedule]. May 1968. cover title, ii+23 leaves, 2 pl. 4° (Bureau of Reclamation regions 5 and 7.) [Prepared in cooperation with Kansas Water Resources Board.] ‡ I 27.2: K 13/no.2
- 14845 Yellowtail [unit of Missouri River Basin project]. [1969.] [10] p. il. narrow 8° ‡ ● Item 660 I 27.2: Y 3/5/969

REHABILITATION SERVICES ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201

- 14846 For the disabled, help through rehabilitation. [Revised May 1969.] [1969.] [16] p. il. narrow 8° ‡ ● Item 529 FS 17.102: D 63/969
- 14847 Opportunities for the hard of hearing and the deaf. [Revised May 1969.] [1969.] [20] p. il. narrow 8° ‡ ● Item 529 FS 17.102: H 21/969
- 14848 Opportunity, help for the mentally retarded. [Revised May 1969.] [1969.] 20 p. il. narrow 8° ‡ ● Item 529 FS 17.102: M 52/2/969
- 14849 Proceedings, National Conference for Coordinating Rehabilitation and Education Services for the Deaf, New Mexico State University, Las Cruces, N. Mex., Nov. 6-9, 1967. [7]+71 p. 4° (Sponsored in cooperation with Office of Education.) ‡
L.C. card 74-603433 FS 17.102: D 34

RURAL ELECTRIFICATION ADMINISTRATION, Agriculture Dept. Washington, DC 20250

- 14850 Report of Administrator, Rural Electrification Administration, [fiscal year] 1968. [2]+53 p. * Paper, 25c. ● Item 115
L.C. card 37-26237 A 68.1: 968

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

SECRET SERVICE, Treasury Dept.
Washington, DC 20220

- 14851 Use of illustrations and motion-picture films and slides of paper money, postage and revenue stamps, and other obligations and securities of United States and foreign governments. Revised July 22, 1968. [1968.] 7 p. 4° ‡ T 34.2: M 74/3/968

SELECTIVE SERVICE SYSTEM
Washington, DC 20435

- 14852 Semi-annual report of director of selective service, for period July 1 to Dec. 31, 1968, to Congress of United States, pursuant to Military selective service act of 1967. Jan. 15, 1969. vi+45 p. il. * Paper, 25c. ● Item 1076 L.C. card 52-60414 Y 3.Se 4: 1/968-2
- 14853 You and the draft. [Revised Apr. 3, 1969.] [1969.] 6 p. narrow 8° ([SSS form 137.]) ‡ ● Item 1075 Y 3.Se 4: 2 D 78/969

SHIP STRUCTURE COMMITTEE
Washington, DC 20226

SSC (series).

- 14854 198. Flame straightening and its effect on base metal properties [with list of references]; by H. E. Pattee, R. M. Evans, and R. E. Monroe. Aug. 1969. iv+31+[2] p. il. 4° (Coast Guard Headquarters.) [Summary report on Project SR-185. Straightening distorted weldments, under Navy Department Naval Ship Engineering Center contract N00024-68-C-5324. Text on p. 2 of cover.] Φ Paper, \$3.00. Y 3.Sh 6: SSC-198

SMALL BUSINESS ADMINISTRATION
Washington, DC 20416

Management aids for small manufacturers.

- 14855 202. Discover and use your public library; by Marie Boerum. July 1969. 7 p. il. 4° ‡ SBA 1.10: 202

Small business bibliography.

- 14856 21. Variety stores; [by Sidney Hollander, jr.]. May 1969. 8 p. il. 4° ‡ ● Item 901-K L.C. card 77-603667 SBA 1.3: 21/4

SMITHSONIAN INSTITUTION
Washington, DC 20560

Astronomical papers translated from the Russian (Astrophysical Observatory, Cambridge, Mass.) ‡ SI 1.12/4: (nos.)

- 14857 12. Observations of artificial earth satellites, no. 2, 1963; translated by Stuart W. Kellogg. May 1968. vi+262 p. il. 4° [Published by Polish Academy of Sciences Committee for International Geophysical Cooperation, Warsaw 1963]. (611-3.)
- 14858 13. Observations of chromospheric spicules in H_α and H_ε 1 3888.65 Å lines [with list of references; by] K. I. Nikolskaya, translated by Jay M. Pasachoff. Aug. 30, 1968. [1]+8 leaves, il. 4° [From Solnechnye dannye, no. 5, 1967.]

Smithsonian contributions to paleobiology.

- 14859 1. New Permian brachiopods from west Texas [with list of literature cited; by] G. Arthur Cooper and Richard E. Grant. Smithsonian Institution Press, 1969. [2]+20+[2] p. il. 5 pl. 4° [Publication of this paper supported by Charles D. and Mary Vaux Walcott Research Fund.] ‡ SI 1.30: 1 L.C. card 79-603670

Smithsonian contributions to zoology.

- 14860 20. Five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska [with list of literature cited; by] Gayle A. Heron and David M. Dankauer. 1969. [2]+24 p. il. 4° * Paper, 40c. ● Item 910-D SI 1.27: 20 L.C. card 73-603658

GOVERNMENT PUBLICATIONS

SOCIAL SECURITY ADMINISTRATION, Health, Education, and
Welfare Dept., Washington, DC 20201

Actuarial notes. †

FS 3.19/2: (nos.)

- 14861 55. SMI benefit experience for 1966-68 as shown on payment records; by Robert J. Myers, Aug. 1969. [4] p. 4°
14862 56. Accrued cost of SMI program for 1966 and 1967; by Robert J. Myers, Aug. 1969. [3] p. 4°
14863 57. Current experience of SMI program on cash basis; by Robert J. Myers, Aug. 1969. 2 p. 4°

SOIL CONSERVATION SERVICE, Agriculture Dept.
Washington, DC 20250

- 14864 Habitat management for elk. [Boise, Idaho, June 1969.] 3 p. il. 4° †
A 57.56: E1 5
14865 Habitat management for mule deer. [Boise, Idaho, June 1969.] 4 p. il. 4° †
A 57.56: M 89
14866 Idaho's soil surveys, soils and people, what they can do for you. [1969.]
[6] p. il. large 8° [Some illustrations are colored.] † Soil Conservation
Service, PO Box 38, Boise, ID 83701 A 57.2: Id 1/2
14867 Muskrat. [Boise, Idaho, June 1969.] 2 p. il. 4° † A 57.2: M 97
14868 National Plant Materials Center, Beltsville, Md., 1968 annual report.
[1969.] cover title, [3]+31 leaves, 4° [Illustration on p. 1 of cover.] †
A 57.54: 968
14869 Pond management for trout. [Boise, Idaho, June 1969.] 4 p. il. 4° †
A 57.2: T 75
14870 Red fox. [Boise, Idaho, June 1969.] 2 p. il. 4° † A 57.2: R 24
14871 Resource planning in Wyoming; how soil surveys help. Casper, Wyo., 1969.
[2] p. il. f° folded into narrow 8° size. † A 57.2: W 99
14872 Soil and water conservation districts, status of organization, by States,
approximate acreage, and farms in organized districts. July 1, 1969.
[7] leaves il. 4° [Issued with perforations.] † A 57.32: 969
14873 Soil and water conservation in Texas. Revised Apr. 1967. Temple, Texas
[1968.]. 20 p. il. 4° † A 57.2: So 3/47
14874 Soil survey: Gallatin County, Ill. [with list of literature cited; by Donald
L. Wallace and others]. Sept. 1969. cover title, i+136 p.+[4] leaves. il.
35 p. of pl. and maps 4° [Prepared in cooperation with Illinois Agricultural
Experiment Station. Text on p. 2 of cover. One map is colored.]
* Paper, \$3.25. ● Item 102 (Rev. 1957)
L.C. card 77-603608 A 57.38: G 13
14875 — Lake County, Tennessee [with list of literature cited; by William T.
Brown and others]. Sept. 1969. cover title, [1]+39 p. il. 1 tab. 30 p.
of pl. and maps 4° [Prepared in cooperation with Tennessee Agricultural
Experiment Station. Text on p. 2 of cover. One map is colored.]
* Paper, \$1.75. ● Item 102 (Rev. 1957).
L.C. card 72-603438 A 57.38: L 14
14876 — McPherson County, Nebr. [with lists of literature cited; by Lester E.
Sherfey]. Jan. 1969. cover title, i+35 p. 34 p. of pl. and maps 4° [Pre-
pared in cooperation with University of Nebraska, Conservation and
Survey Division. Text on p. 2 of cover.] * Paper, \$2.00. ● Item 102
(Rev. 1957)
L.C. card 78-600964 A 57.38: M 24
14877 — Montgomery County, Ill. [with list of literature cited; by C. E. Downey
and R. T. Odell]. Aug. 1969. cover title, i+94 p. 122 p. of pl. and maps,
1 tab. 4° [Prepared in cooperation with Illinois Agricultural Experiment
Station. Text on p. 2 of cover. One map is colored.] * Paper,
\$6.75. ● Item 102 (Rev. 1957)
L.C. card 75-603251 A 57.38: M 76/2

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14878 — Perry County, Ind. [with list of literature cited; by John R. Robbins, jr. Sept. 1969. cover title, i+70 p. il. 74 p. of pl. and maps 1 tab. 4° [Prepared in cooperation with Purdue University Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] * Paper, \$4.25. ● Item 102 (Rev. 1957)
L.C. card 72-603541 A 57.38: P 42
- 14879 — Plymouth County, Mass. [with list of literature cited; by Charles W. Upham]. July 1969. cover title, i+116 p. il. 66 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with Massachusetts Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] * Paper, \$4.25. ● Item 102 (Rev. 1957)
L.C. card 79-603252 A 57.38: P 74
- Technical release.
- 14880 41. Geology: Graphical solutions of geologic problems [with list of references]; by D. H. Hixson. [1]+ii+58 p. [4] leaves, il. 4° (Engineering Division.) [Issued with perforations.] ‡ A 57.51: 41
- 14881 Ways to attract non-game birds. [Boise, Idaho, June 1969.] 4 p. il. 4° ‡ A 57.2: B 23

SOLICITOR, Labor Dept.
Washington, DC 20210

- 14882 Decisions of Wage Appeals Board, index-digest, 1964-1968. [1969.] vi+49 p. [Prepared by the Research, Analysis and Reference function of Division of Legislation.] ‡ ● Item 712
L.C. card 77-603474 L 21.2: W 12/964-68

SPORT FISHERIES AND WILDLIFE BUREAU, Interior Dept.
Washington, DC 20240

North American fauna (series).

- 14883 67. Natural history of king rail [with list of literature cited]; by Brooke Meanley. [1969.] cover title, viii+108 p. il. * Paper, 60c. ● Item 612-A
L.C. card 75-603661 I 49.30: 67

Regulatory announcement.

- 14884 84. Federal regulations governing hunting, possession, transportation, and/or importation of ducks, geese, swans, coots, gallinule, snipe, and cranes in United States (excluding Alaska, Hawaii, Puerto Rico, and Virgin Islands), 1969-70. Sept. 1969. 16 p. ‡ ● Item 613 I 49.24: 84

Resource publication.

- 14885 77. Progress in sport fishery research, 1968; [E. Joyce Engstrom, compositor]. May 1969. iv+259 p. il. 4° (Division of Fishery Research.) [Includes list of technical communications.] * Paper, \$2.00. ● Item 613-B
L.C. card 59-61791 I 49.66: 77

- 14886 Seedskadee National Wildlife Refuge [Sweetwater County, Wyo.], master plan, backup volume. [1969.] [4]+48+[1] p. il. 2 pl. 4° [Text on p. 2 of cover.] ‡
L.C. card 71-603530 I 49.6/2: Se 3

Special scientific report: Wildlife (series).

- 14887 125. Annotated bibliography of helminths of waterfowl (Anatidae); by Malcolm E. McDonald. June 1969. ii+333 p. 4° (Bear River Research Station, Denver Wildlife Research Center, Division of Wildlife Research.) ‡ ● Item 614-C I 49.15/3: 125

Wildlife leaflet.

- 14888 486. Birds protected by Federal law; compiled [by] Division of Management and Enforcement. May 1969. 4 p. 4° [Supersedes WL 475, May 1967.] * Paper, 10c. ● Item 616-B I 49.13: 486

- 14889 Wildlife portrait series no. 1. [1969.] 10 colored posters, each 14 x 17 in. [Issued in envelope for mailing purposes.] * \$2.00 per set. ● Item 616-C I 49.71: 1

GOVERNMENT PUBLICATIONS

STATE DEPARTMENT Washington, DC 20520

Background notes. ([Office of Media Services, Bureau of Public Affairs.])
[Issued with perforations.] * Paper, \$3.50 per yr., \$3.00 additional
for foreign mailing; single copies, each 10c. ● Item 862-B

- 14890 British Honduras [with reading list]. [Revised Dec. 1968.] [1969.] 3 p. il. 4°
([Publication 8332.]) L.C. card 66-61561 S 1.123: B 77 h/968
- 14891 Grand Duchy of Luxembourg [with reading list]. [Revised July 1969.] July
1969. 4 p. il. 4° ([Publication 7856.]) L.C. card 66-61561 S 1.123: L 97/969
- 14892 Islamic Republic of Pakistan [with reading list]. [Revised July 1969.] [1969.]
8 p. il. 4° ([Publication 7748.]) L.C. card 66-61561 S 1.123: I' 17/969
- 14893 Kingdom of Cambodia [with reading list]. [Revised July 1969.] [1969.] 6 p. il. 4°
([Publication 7747.]) L.C. card 66-61561 S 1.123: C 14/969
- 14894 Mozambique [with reading list]. [Revised July 1969.] July 1969. 5 p. il. 4°
([Publication 7965.]) L.C. card 66-61561 S 1.123: M 87/969
- 14895 People's Republic of Albania [with reading list]. [Revised Feb. 1969.] [1969.]
4 p. il. 4° ([Publication 8217.]) L.C. card 66-61561 S 1.123: A1 1/969
- 14896 Republic of Brazil [with reading list]. [Revised July 1969.] [1969.] 4 p. il. 4°
([Publication 7756.]) L.C. card 66-61561 S 1.123: B 73/969
- 14897 Republic of Congo (Brazzaville) [with reading list]. [Revised July 1969.] [1969.]
4 p. il. 4° ([Publication 7896.]) L.C. card 66-61561 S 1.123: C 76/2/969
- 14898 Republic of Guinea [with reading list] [Revised July 1969.] [1969.] 4 p. il. 4°
([Publication 8057.]) L.C. card 66-61561 S 1.123: G 94/969
- 14899 Republic of Iraq [with reading list]. [Revised July 1969.] [1969.] 4 p. il. 4°
([Publication 7975.]) L.C. card 66-61561 S 1.123: Ir 1/2/969
- 14900 Republic of Upper Volta [with reading list]. [Revised Feb. 1969.] [1969.]
4 p. il. 4° ([Publication 8201.]) L.C. card 66-61561 S 1.123: Up 6 v/969
- 14901 State of Vatican City [with reading list]. [Revised Aug. 1969.] [1969.] 2 p. 4°
([Publication 8258.]) L.C. card 66-61561 S 1.123: V 45/969
- 14902 Surinam [with bibliography]. [Revised July 1969.] [1969.] 4 p. il. 4° ([Pub-
lication 8268.]) L.C. card 66-61561 S 1.123: Su 7/969
- 14903 Union of Soviet Socialist Republics [with reading list]. [Revised July 1969.]
1969. 14 p. il. 4° ([Publication 7842.]) L.C. card 66-61561 S 1.123: Un 33/969
- 14904 Foreign Affairs Research Documentation Center, special papers avail-
able: USSR and Eastern Europe. Aug. 1969. cover title, [2] leaves+58
p. 4° (Office of External Research.) [List of recent publications issued
by Office of External Research, on p. 3 of cover.] † S 1.126/2: Un 3

International organizations series.

L.C. card 76-603680

- 14905 4. Organization for Economic Cooperation and Development. [July 1969.] S
p. il. 4° ([Publication S460: Office of Media Services, Bureau of Public
Affairs.]) [Issued with perforations.] * Paper, 10c. ● Item 882-C
S 1.70/5: 4

Near and Middle East series.

- 14906 75. United States policy in Near East crisis. [Revised July 1969.] [1969.] cover
title, [3]+28 p. il. 4° ([Publication S269: Office of Media Services,
Bureau of Public Affairs.]) [Compilation of major addresses and state-
ments issued by White House and State Department, together with
certain United Nations resolutions, during period May 23, 1967-Apr. 23,
1969. Reprinted from Department of State bulletin, June 12, 1967-May 26,
1969.] * Paper, 35c. ● Item 883
L.C. card 72-603671 S 1.86: 75/2

Treaties and other international acts series. * Paper, \$10.00 a yr. (ap-
proximately 150 issues), \$6.00 additional for foreign mailing: single
copies vary in price. ● Item 899 S 9.10: (nos.)

- 14907 6693. Embassy sites, agreement between United States and Union of Soviet
Socialist Republics, signed Moscow May 16, 1969; [entered into force
May 16, 1969], with exchange of notes. [1969.] [2]+22 p. 3 pl.
[English and Russian.] * Paper, 50c.
L.C. card 74-603468

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14908 6697. Agricultural commodities, agreement between United States and Dominican Republic signed Santo Domingo June 11, 1968; [entered into force June 11, 1968. [1969.] [2]+4 p. [English and Spanish.] * Paper, 10c. L.C. card 75-603235
- 14909 6698. Economic cooperation. Spanish-United States Economic Committee, agreement between United States and Spain, effected by exchange of notes signed Washington July 15, 1969; [entered into force July 15, 1969]. [1969.] [2]+4 p. [Spanish and English.] * Paper, 10c. L.C. card 70-603467
- 14910 6699. Defense, use of military facilities in Spain, agreement between the United States and Spain, extending agreement of Sept. 26, 1953, as extended, effected by exchange of notes, signed Washington June 20, 1969; [entered into force June 20, 1969, effective Sept. 26, 1968] with related letters. [1969.] [2]+4 p. [Spanish and English.] * Paper, 10c. L.C. card 73-603465
- 14911 6700. Extension of loan of vessels, agreement between United States and Spain, effected by exchange of notes signed Washington June 20, 1969; [entered into force June 20, 1969.] [1969.] [2]+3 p. [English and Spanish.] * Paper, 10c. L.C. card 73-603544
- 14912 6701. Agricultural commodities, agreement between United States and Paraguay, signed Asuncion June 7, 1969; [entered into force June 7, 1969]. [1969.] [1]+20 p. [English and Portuguese.] * Paper, 15c. L.C. card 79-603331
- 14913 6702. Extension of loan of vessels U.S.S. Edwards and U.S.S. Leary, agreement between United States and Japan, effected by exchange of notes signed Tokyo June 20, 1969 [effective Mar. 10, 1969; entered into force June 20, 1969.] [1969.] [2]+7 p. [English and Japanese.] * Paper, 10c. L.C. card 75-603523
- 14914 6703. Agricultural commodities, agreement between United States and Vietnam signed Saigon June 27, 1969; [entered into force June 27, 1969]. [1969.] [2]+3 p. * Paper, 10c. L.C. card 70-603464
- 14915 6704. Fisheries in western region of middle Atlantic Ocean, agreement between United States and Poland, signed Warsaw, June 12, 1969; [entered into force June 12, 1969, with exchange of letters]. [1969.] [2]+14 p. [English and Polish.] * Paper, 10c. L.C. card 77-603466
- 14916 6714. Tracking station, agreement between United States and Spain, extending agreement of Jan. 29, 1964, as supplemented, effected by exchange of notes signed Madrid June 25, 1969; [entered into force June 25, 1969]. [1969.] [2]+3 p. [English and Spanish.] * Paper, 10c. L.C. card 76-603333
- 14917 6715. Mutual Defense Assistance Office, agreement between United States and Japan, relating to agreement of Mar. 8, 1954, effected by exchange of notes, signed Tokyo, July 4, 1969; [entered into force July 4, 1969]. [1969.] [2]+4 p. [Japanese and English.] * Paper, 10c. L.C. card 70-603329
- 14918 6717. Atomic energy, cooperation for civil uses, agreement between United States and Portugal, signed Washington July 3, 1969; [entered into force July 19, 1969]. [1969.] [2]+33 p. [English and Portuguese.] * Paper, 20c. L.C. card 75-603330
- 14919 6718. Atomic energy, application of safeguards by IAEA to United States-Portugal cooperation agreement, agreement between United States, Portugal, and International Atomic Energy Agency, signed Vienna July 11, 1969; [entered into force July 19, 1969]. [1969.] [2]+9 p. * Paper, 10c. L.C. card 73-603327
- 14920 6719. Technical cooperation, agreement between United States and Afghanistan, extending agreement of June 30, 1953, as extended, effected by exchange of notes signed Kabul June 16 and 17, 1969; [entered into force June 17, 1969]. [1969.] [2]+3 p. [English and Afghan.] * Paper, 10c. L.C. card 72-603332
- 14921 6720. Load lines, process-verbal of rectification in convention of Apr. 5, 1966, between United States and other Governments, done London May 5, 1969. [1969.] [2]+10 p. [English and French.] * Paper, 10c. L.C. card 77-603328
- 14922 6721. Atomic energy, cooperation for civil uses, agreement between United States and Argentina, signed Washington June 25, 1969; [entered into force July 25, 1969]. [1969.] [2]+42 p. [English and Spanish.] * Paper, 20c. L.C. card 70-603334
- 14923 6722. Atomic energy, application of safeguards by IAEA to United States-Argentina cooperation agreement, agreement between United States and International Atomic Energy Agency, signed Vienna June 13, 1969; [entered into force July 25, 1969]. [1969.] [2]+18 p. [English and Spanish.] * Paper, 15c. L.C. card 73-603579
- 14924 6723. Extension of loan of vessels, U.S.S. Benson, U.S.S. Hillary P. Jones, and U.S.S. Plunkett, agreement between United States and Republic of China, effected by exchange of notes signed Taipei June 11 and 18, 1969; [entered into force June 18, 1969]. [1969.] [2]+7 p. [English and Chinese.] * Paper, 10c. L.C. card 78-603599

GOVERNMENT PUBLICATIONS

Treaties and other international acts series—Continued

- 14925 6724. Claims, Trust Territory of Pacific Islands, agreement between United States and Japan, signed Tokyo Apr. 18, 1969; [entered into force July 7, 1969], with exchanges of notes. [1969.] [2]+19 p. [English and Japanese.] * Paper, 15c.
L.C. card 72-603584
- 14926 6725. Agricultural commodities, agreement between United States and Tunisia, signed Tunis July 11, 1969; [entered into force July 11, 1969.] [1969.] [2]+4 p. * Paper, 10c.
L.C. card 79-603583
- 14927 6726. Atomic energy, cooperation for civil uses, agreement between United States and Iran, amending agreement of Mar. 5, 1957, as amended, signed Washington, Mar. 18, 1969; [entered into force Aug. 1, 1969]. [1969.] [2]+7 p. * Paper, 10c.
L.C. card 76-603585
- 14928 6727. Air transport services, agreement between United States and France, amending agreement of Mar. 27, 1946, as amended and extended, effected by exchange of notes dated Paris May 28 and 29, 1969; [entered into force May 29, 1969.] [1969.] [2]+6 p. [French and English.] * Paper 10c.
L.C. card 71-603581
- 14929 6729. Mutual defense assistance, agreement between United States and Belgium, amending annex B to agreement of Jan. 27, 1950, effected by exchange of notes signed Brussels June 20 and 30, 1969; [entered into force June 30, 1969]. [1969.] [2]+3 p. [English and French.] * Paper, 10c.
L.C. card 78-603580
- 14930 6730. Agricultural commodities, agreement between United States and Pakistan, modifying agreement of May 16, 1968, effected by exchange of notes signed Rawalpindi and Islamabad May 16 and June 13, 1969; [entered into force June 13, 1969]. [1969.] [2]+2 p. * Paper, 10c.
L.C. card 75-603582

STATISTICAL REPORTING SERVICE, Agriculture Dept. Washington, DC 20250

- 14931 Calf crop, 1969. July 22, 1969. 2 p. 4° (MtAn 2-2 (7-69); Crop Reporting Board.) † A 92.18/5: 969
- 14932 Cranberries, indicated production, Aug. 15, 1969. Aug. 19, 1969. 2 p. 4° (SpCr 1(8-69); Crop Reporting Board.) † A 92.11/6: 969
- 14933 Irish potatoes, utilization of 1968 crop with comparisons. Sept. 9, 1969. 3 p. 4° (Pot 1-3 (9-69); Crop Reporting Board.) † A 92.11/5: 968-2
- 14934 Milk production [Aug. 1969]. Aug. 12, 1969. 8 p. il. 4° (Da 1-1 (8-69); Crop Reporting Board.) [Special in this issue: Milk cows, June 1969.] † A 92.10: 969/6
- 14935 Tree nuts, by States, 1967 and 1968, production, use, value. Aug. 1969. 7 p. 4° (FrNt 4-1 (8-69); Crop Reporting Board.) † A 92.27: 967-68

SYSTEMS RESEARCH AND DEVELOPMENT SERVICE, Transportation Dept., Washington, DC 20553

- 14936 Expansion of automation in terminal ATC facilities; by John C. Mercer, presented by 3d annual R&D report to industry, June 17, 1969. [1969.] [1]+13 p. 10 pl. 4° † TD 4.502: Au 8/2
- 14937 Satellite applications, evolutionary process, international applications, [address] presented by Robert W. Meier, Chief, Communications Development Division, Systems Research & Development Service, Federal Aviation Administration, at 1st annual National Aviation System Planning Review Conference, Washington, D.C., Apr. 23-25, 1969. [1969.] [1]+6 leaves, 4° † TD 4.510: M 47
- 14938 Scientific and technical reports, [list] cy-1968. [1969.] [1]+9 p. 4° † TD 4.509: list/968

TARIFF COMMISSION Washington, DC 20436

- 14939 Summaries of trade and tariff information, prepared in terms of tariff schedules of United States (TSUS): Schedule 2, Wood and paper, printed matter: v. 4. Paper and related products II. 1969. vi+158+[2] p. 4° (TC publication 294.) † TC 1.26/2: 2/4
L.C. card 67-61163

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14940 Synthetic organic chemicals, United States production and sales of elastomers, 1968, preliminary. Sept. 1969. cover title, [1]+5 p. 4° †
TC 1.33/2: E1 1/968
- 14941 Synthetic organic chemicals, United States production and sales of synthetic organic pigments, 1968, preliminary. Sept. 1969. cover title, [1]+13 p. 4° †
TC 1.33/2: P 62/968

TENNESSEE VALLEY AUTHORITY
Washington, DC 20444

- 14942 Fish and fishing around TVA steam plants. [1969.] [8] p. il. oblong 48° (Division of Forestry Development.) †
Y 3.T 25: 27 F 52/4

TRAINING AND EMPLOYMENT SERVICE, Labor Dept.
Washington, DC 20210

NOTE.—The Training and Employment Service was established within the Labor Department's Manpower Administration.

- 14943 Area trends in employment and unemployment. (Manpower Administration.) [Monthly. Issued by Employment Security Bureau and classified L 7.51/3: (date) prior to June 1969 issue.] † ● Item 752-C
L 34.9: (date)
June 1969—

TRANSPORTATION DEPARTMENT
Washington, DC 20590

- 14944 Isthmian canal demand forecast, economic analysis of potential tonnage traffic; [prepared by Walter J. Chilman]. [1969.] cover title, [1]+i+79 leaves, 4° †
L.C. card 76-603699 TD 1.2: Is 7
- 14945 Socio-economic projections for subregions of Northeast Corridor through 1980. May 1969. cover title, [3]+vi+45 p. il. 4° (Northeast Corridor Transportation Project, Office of High-Speed Ground Transportation.) †
L.C. card 77-603659 TD 1.2: N S1/980

TREASURY DEPARTMENT
Washington, DC 20220

- Department circular, public debt series. † ● Item 924 T 1.4/3: (nos.)
- 14946 3-69. 6¾ percent treasury notes of series D-1970, dated and bearing interest from May 15, 1969, due Aug. 15, 1970. May 1, 1969. 2 p. 4°
- 14947 4-69. 6½ percent treasury notes of series B-1976, dated and bearing interest from May 15, 1969, due May 15, 1976. May 1, 1969. 2 p. 4°
- 14948 5-69. 7¾ percent treasury notes of series D-1971, dated and bearing interest from Aug. 15, 1969, due Feb. 15, 1971. July 31, 1969. 2 p. 4°
- 14949 Foreign credits by United States Government, status of active foreign credits of United States Government and of international organizations, as of June 30, 1968; [compiled by Treasury Department]. [1969.] cover title, v+169 p. oblong 12° * Paper, \$1.50. ● Item 925-C T 1.45: 968
- 14950 Remarks by Edwin S. Cohen, Assistant Secretary for Tax Policy, at Section of Taxation luncheon, American Bar Association annual meeting, Dallas, Tex., Aug. 9, 1969. 1969. 10 p. 4° (K-163.) † T 1.31: C 66
- 14951 Remarks of David M. Kennedy, Secretary of Treasury at dedication of Philadelphia Mint, Philadelphia, Pa., Aug. 14, 1969. 1969. 6 p. 4° (K-169.) † T 1.31: K 38/10
- 14952 Statement by Paul A. Volcker, Under Secretary of Treasury for Monetary Affairs, before Senate Finance Committee, Sept. 3, 1969. [1969.] 6+5 p. 4° (K-189.) † T 1.31: V 88/3

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 14953 Toward a new fiscal federalism, remarks of Murray L. Weidenbaum, Assistant Secretary of Treasury for Economic Policy, before National Conference of State Legislative Leaders, St. Louis, Mo., Aug. 27, 1969. 1969. 14 p. 4° (K-182.) † T 1.31: W 42

UNEMPLOYMENT INSURANCE SERVICE, Labor Dept. Washington, DC 20210

NOTE.—The Unemployment Insurance Service was established within the Labor Department's Manpower Administration.

- 14954 Benefit series service, unemployment insurance report; prepared by Division of Determinations and Hearings. (Manpower Administration.) [Monthly. Issued in looseleaf form. Issued by Bureau of Employment Security and classified L 7.37: (nos.) prior to no. 228, May 1969.] * Paper, \$5.00 a yr., \$1.25 additional for foreign mailing (1-3 yr. subs.).
● Item 752
L.C. card L 50-85 L 33.9: (nos.)
No. 228—May 1969—

UNITED STATES TRAVEL SERVICE, Commerce Dept. Washington, DC 20230

- 14955 Data on visitors to U.S., 1st 6 months, 1968. 7 p. 4° (Facilitation and Planning Division.) † C 47.2: D 26/968
14956 Pleasure and business visitors to U.S. by port of entry and mode of travel, 1st 6 months, 1968. [1969.] 8 p. oblong 8° folded to 4° size. (Office of Research and Analysis.) † C 47.15/2: 968
14957 State and territorial travel information offices in U.S.A. [Oct. 24, 1968.] 4 p. 4° ([Visitor Services Division.]) † C 47.2: St 2
14958 [This entry number not used.]
14959 United States trade shows and exhibitions, 1970. [1969.] [1]+36 p. 4° [List prepared from questionnaire sent to associations by United States Travel Service.] † ● Item 271-A-1 C 47.2: T 67/970

VETERANS ADMINISTRATION Washington, DC 20420

- 14960 Government life insurance programs for veterans and servicemen, annual report calendar year 1968. [1969.] cover title, 21 p. (Insurance Service, Department of Veterans Benefits.) †
L.C. card 65-61802 VA 1.46: 968

VA pamphlet.

- 14961 1-1. Board of Veterans Appeals, rules of practice, 1969 edition. [1969.] cover title, ill+18 p. [Text on p. 2 of cover. Supersedes 1967 edition.] †
● Item 988 VA 1.19: 1-1/5
14962 Voluntary service, National Advisory Committee, report of annual meeting, VAVS action '69 . . . to meet challenge of '70s, Washington, D.C. Aug. 1969. iv+41 p. il. 4° (Office of Chief Medical Director.) †
● Item 985
L.C. card 61-61961 VA 1.2: V 88/969

WEATHER BUREAU, Commerce Dept. Washington, DC 20235

- 14963 Coastal warning facilities chart: Canadian border to Eureka, Calif., and Alaska. Scale 50 nautical m.=1.7 in. Revised May 1968. [1968.] 19 x 12 in. [Broadcast schedules of Marine forecasts and warnings on reverse.]
* Paper, 10c. C 30.22/3: C 16/968
14964 — Eastport, Me. to Montauk Point, N.Y. Scale 50 naut. m.=2.25 in. Revised June 1968. [1968.] 19 x 12 in. [Broadcast schedules of marine forecasts and warnings on reverse.] * Paper, 10c. C 30.22/3: Ea 7/968

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 14965 — Eureka to Point Conception, Calif. Scale 50 naut. m.=2 in. Revised May 1968. [1968.] 19 x 12 in. [Broadcast schedules of marine forecasts and warnings on reverse.] * Paper, 10c. C 30.22/3: Eu 7/968
- 14966 — Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay. Scale 50 naut. m.=1.8 in. Revised June 1968. [1968.] 12 x 19 in. [Broadcast schedules of marine forecasts and warnings on reverse.] * Paper, 10c. C 30.22/3: M 31/968
- 14967 Warning facilities chart: Hawaiian waters. Scale 50 naut. m.=2.6 in. Apr. 1, 1969. 12 x 19 in. [Broadcast schedules of marine forecasts and warnings on reverse.] * Paper, 10c. C 30.22/3: H 31/2/969
- 14968 Weather Bureau marine services chart: Alaskan waters. Scale 100 naut. m.=2.4 in. May 1969. 12 x 19 in. [Lambert conformal conic projection. Text on reverse.] * Paper, 15c. C 30.22/6: A1 1 s/969

**WOMEN'S BUREAU, Labor Dept.
Washington, DC 20210**

- 14969 Expanding opportunities for girls, their special counseling needs. [July 1969.] [4] p. 4" ([WB 69-134.]) † L 13.2: G 44/3/969

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 97



Index

MONTHLY CATALOG OCTOBER 1969

NOTE.—*Entries appear in this Index under subjects or titles. Bulletins, circulars, etc., having no specific subjects are entered under the issuing office only. Index citations are to entry numbers in the catalog.*

A

AASHO, *see* American Association of State Highway Officials.
 Abbreviations, Air Force manual, 13610
 Aberdeen, Idaho, records of observation wells and water level fluctuations, 14355
 Ablating materials, chemical equilibrium, including condensed species, 14636
 ABM, *see* Missiles.
 About census '70, 13732
 Abrahamson, John D., westward Alaska, native economy and its resource base, 14201
 Abstracts, *see* names of departments, bureaus, etc., issuing abstracts—*also* subjects.
 Academic freedom, *see* Teaching.
 Acanthocephala, parasite subject catalog, 13543
 Accidents, and incidents involving shipment of hazardous materials, study of uniform reporting system for all modes of transportation in reporting, 14721
 see also Marine accidents—Motor vehicle accidents.
 Accounts and accounting:
 accounting and finance manual, DSA, change, 14084
 medical care cost accounting system, Veterans Administration improvements made, GAO report, 14319
 Accumulators, simplified analytical model for use in design of pump-inlet for prevention of liquid-rocket longitudinal oscillation (pogo), 14633
 Acids, *see* names of acids.
 Acoustical flows, *see* Flow.
 Acoustics, *see* Noise—Sound.
 Acreage allotments, *see* names of products.
 Acreage limitation amendments, 14039
 Acreage marketing guides, 14063
 Acts of Congress, *see* Law.
 Actuarial notes, 14861–863
 Adams, A. N., observations made with 6-inch transit circle 1956–62 of sun, etc., 14724
 Adams, Bert N., and wife, relief, 13897
 Adams, G. W., solar proton monitoring system, 14170
 Adams, James A., density gradients near liquid/air interface, 14742
 Adas Israel Synagogue, lease to Jewish Historical Society of Greater Washington, 13865, 13989
 Addresses, lectures, etc.:
 by—
 Allen, James E., Jr., 14132, 14140
 Blenstock, Herbert, 14462
 Blount, Winton M., 14772
 Brimmer, Andrew F., 14227
 Chartener, William H., 13809
 Cohen, Edwin S., 14950
 Dunne, Thomas P., 13802
 Gibson, A. E., 14487–488
 Harilee, John, 14208
 Hearn, George H., 14210
 Hyde, Floyd H., 14383
 Jenkins, I. C., 14813

Addresses—Continued by—continued

Katz, Jacob E., 13728
 Kennedy, David M., 14951
 McGuire, Marie C., 14385
 McGuire, R. C., 13647
 Mazure, James E., 14211
 Meier, Robert W., 14937
 Mutter, H. B., 14209
 Nehmer, Stanley, 13807
 Ramey, James T., 13722, 13725
 Ross, William B., 14382
 Seaborg, Glenn T., 13723
 Shultz, George P., 14438
 Simmons, Samuel J., 14384
 Stans, Maurice H., 13808
 Staples, J. Clay, 13645
 Tribus, Myron, 13805
 Volcker, Paul A., 14952
 Weidenbaum, Murray L., 14953
 FMC SP series, 14208–211
 MS SP series, 14487–488
 Adelson, Sadye F., dietary levels of households in United States, 13592
 Adhesive tape, *see* Tape.
 Administrative management:
 administration deficiencies in Federal insecticide, fungicide, and rodenticide act, hearings, 13930
 career development, selected references, 14379
 dental administration, Navy manual, change, 14739
 local government, administrative personnel, problems, needs, etc., pilot study, 14461
 management aids for small manufacturers, 14855
 Navy Dept. design manual, change, 14722
 personnel management series, 13794
 RDT & E management guide, Navy Dept., 14758
 resources and work force management, civil engineering, Air Force manual, change, 13612
 value engineering, design or manufacture simplification, performed by contractors, opportunities for increased savings by improving management, Defense Dept. GAO report, 14321
 Advisory Commission on Information, report, 13859
 AEC, *see* Atomic Energy Commission.
 Aerodynamics:
 characteristics—
 computing program for axial distribution of normal-force, for axisymmetric multi-stage launch vehicles, errata, 14602
 full-scale rotor blade stopped in flight, 13676
 effects of bulbous bases, 14569
 interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers 3 and 6, 14627

INDEX

Aerodynamics—Continued
 magnetohydrodynamic flow around blunt bodies, experimental investigation, 14574
 nonequilibrium gasdynamics, 14583
 subsonic aerodynamic characteristics of large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system at angle of attack, 14611
 supersonic aerodynamic characteristics and shock standoff distances for large-angle cones with and without cylindrical afterbodies, 14613
see also Load (mechanics)—Rockets.
Aeroelasticity, characteristics of full-scale rotor blade stopped in flight, 13676
Aeromagnetic maps, surveys, etc., *see* Maps and charts.
Aeromedical reviews, 13627
Aeronautical and Space Sciences Committee, Senate hearing, 14011
Aeronautical supplies, *see* Ground support equipment.
Aeronautics:
 air transport services, agreement with France, 14928
 aviation combat criterion, development, preliminary report, 14502
 Federal aviation act of 1958, amend, hearings, 14021
 Federal aviation regulations, 14184-185
 lifting horizontal-axis rotating-wing aeronautical systems (HARWAS), review and evaluation, 13677
Aerospace medicine, *see* Medicine.
Aerospace Research Office:
 OAR series, 13626
 research resumes, 13626
Aerospace vehicles, *see* Spacecraft.
AFCLR, *see* Air Force Cambridge Research Laboratories.
Afghanistan, technical cooperation, agreement, 14920
Africa:
 southwest coast, sailing directions, 14728
 U.S. foreign aid, 1970 proposed program, 14427
Afterbodies, cylindrical, large-scale cones with and without, supersonic aerodynamic characteristics and shock standoff distances, 14613
Aged:
 housing, balanced program for balanced budgets (address), 14385
 social security for the aged, international perspectives, working paper prepared for hearing, 14013
 see also Aging.
Agents, *see* Foreign agents.
Aging:
 health aspects of economics of aging, toward a full share in abundance, working paper, 14012
 resources for the aging, action handbook, 14122
Aging, Special Committee on, Senate, committee prints, 14012-13
Agricultural adjustment act, *see* Agriculture.
Agricultural commodities, *see* Agricultural products.
Agricultural credit, *see* Loans.
Agricultural products:
 agricultural commodities, agreement with—
 Dominican Republic, 14908
 Pakistan, 14930
 Paraguay, 14912
 Tunisia, 14926
 Viet-Nam, 14914
 license fees under perishable commodities act of 1930, increase, hearing, 13912
 marketing research reports, 13594
 production research reports, 13604-605

Agricultural products—Continued
 production research under marketing agreement and order programs, authorize, hearing, 13915
 United Kingdom, projected level of demand, supply, and imports, 1970, 1975, and 1980, summary, 14125
Agricultural Research Service:
 ARS series, 13537-340
 directory, 13583
 scientific careers, 13595
 water resources research, coordination with Reclamation Bureau, report of meeting, 14830
Agricultural Stabilization and Conservation Service:
 annual report—
 California, congressional districts, 13560
 Georgia, congressional districts, 13561
 Idaho—
 1st Congressional District, 13562-563
 2d Congressional District, 13564-565
 Iowa, 13559
 Kansas, Congressional District, 13566
 Maine, 13567-568
 Massachusetts, 13558
 Oklahoma—
 1st Congressional District, 13569
 2d Congressional District, 13570
 3d Congressional District, 13571
 4th Congressional District, 13572
 5th Congressional District, 13573
 6th Congressional District, 13574
 Pender-New Hanover Counties, 13575
 Pennsylvania, congressional district summary, 13576
 South Carolina—
 1st Congressional District, 13577
 2d Congressional District, 13578
 3d Congressional District, 13579
 4th Congressional District, 13580
 5th Congressional District, 13581
 6th Congressional District, 13582
Agriculture:
 agricultural adjustment act, amend, hearing, 13914
 agricultural economic reports, 14123
 research, Northern Utilization Research and Development Division, 13546
Agriculture and Forestry Committee, Senate: hearing, 14014
 reports, 13972-975
Agriculture Committee, House, hearings, 13911-915
Agriculture Department:
 leaflet, 13593
 marketing research report, 13594
 miscellaneous publications, 13595-596
 PA [program aid] series, 13597-602
 production research reports, 13604-605
 progress report on pesticides and related activities, 13606
 registered agricultural pesticide chemicals, fungicides, and nematocides, summary of uses, 13556
 statistical bulletin, 13607
 technical bulletin, 13608
 telephone directory, 13609
Ainsworth unit, *see* Missouri River Basin project.
Air, upper air observations above 30 kilometers, Federal plan, 14172
 see also Air pollution.
Air carriers:
 acquisition of control, unlawful without approval of CAB, amend act, hearings, 14021
 certification and operations, Federal aviation regulations, 14184
 transportation of dangerous articles, etc., Federal aviation regulations, 14186
 United States carriers, list, 13779

Air Force:

- German—
 - command and leadership, 13637
 - 1919-39, development, 13636
 - historical studies series, 13636-637
 - Korea, build-up, 5th Air Force report, 13619
 - lithograph series, 13621-624
 - research resumes, 13626
- Air Force Cambridge Research Laboratories:
 - publications, bibliography, 13634-635
 - special reports, 13634-635
- Air Force Department:
 - administrative practices, manual, 13610
 - Air Force manuals, 13610-613
 - Air Force pamphlets, 13614-616
 - aircraft engine procurement, potential for savings by reduction, GAO report, 14324
 - OAR series, 13626
 - special reports of Air Force Cambridge Research Laboratories, 13634-635
- Air Force Reserve, general officers, nominations for appointment in grade of major and brigadier generals, hearing, 14016
- Air pollution, air quality control region, report for consultation, Steubenville-Weirton-Wheeling, 14803
- Air traffic:
 - activity, FAA report, 1969 fiscal year, 14183
 - control—
 - special military operations handbook, change, 13642
 - terminal, change, 13643
 - military, activity report, 14189
 - national airspace system, NAS en route stage A system, 14190
 - national aviation system planning review conference, annual summary report, 14187
 - security control, Federal aviation regulations, 14186
 - special rules, and airport traffic patterns, Federal aviation regulations, 14186
 - terminal ATC facilities, expansion of automation, 14936
 - training, 13639
- Air transportation, *see* Aeronautics— Air carriers.
- Air University, research reports, abstracts, 13617
- Air Weather Service:
 - technical reports, 13618
 - weather modification program, FY 1969, annual survey report, 13618
- Aircraft:
 - alterations, acceptable methods, techniques, and practices, 14178
 - experiments with icephobic surfaces, 13644
 - general operating and flight rules, Federal aviation regulations, 14186
 - industry, 1957-68 R & D, 14716
 - inspection aids, general aviation, 14246
 - inspection and repair, acceptable methods, techniques, and practices, 14179
 - jet transport model equipped with external-flow jet-augmented flaps, static and dynamic stability derivatives, 14646
 - large commercial operators, certification and operations, Federal aviation regulations, 14184
 - lateral-directional handling qualities and pilot rating variability, fixed-base simulator pilot rating surveys for predicting, 14615
 - lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
 - military aircrew station geometry, military standard, 14107
 - national aviation system planning review conference, annual summary report, 14187
 - noise attenuation provided by flight helmets, manikin measurements, 14503

Aircraft—Continued

- STOI—
 - equipped with external flow jet flap, wind-tunnel investigation, 14617
 - operational evaluation and related developments (paper), 13645
- V/STOL, ducted-propeller model, quad configuration, dynamic stability characteristics, investigation, 13669
- VTOL, six-degrees-of-freedom motion simulator for hovering tasks, 14630
- Aircraft accidents, investigation reports, 14717
- Aircraft Development Service, report FAA DS series, 13646
- Aircraft engines, *see* Engines (aircraft).
- Aircraft repair stations, radium contamination in instrument repair facilities, evaluation, 14790
- Aircrews, *see* Flight crews.
- Airmen weighted airman promotion system, 13638
- Airplanes, twin-jet fighter, at high angles of attack, analysis of lateral-directional stability characteristics, 14616
- Airports:
 - airport/airways development, determining appropriate course of Federal action for coming years, hearings, 14020
 - Atlanta, Ga., 1980 metropolitan area capacity analysis, staff study, 13649
 - design standards, general aviation airports, basic and general transport, 14180
 - Federal aid program, Federal aviation regulations, change, 14185
 - grooved runways, general-aviation pilot reactions and opinions, 14591
 - national airport system, opportunities for development, 13648
 - see also* Air traffic.
- Airspace utilization, *see* Air traffic.
- Airways, airport/airways development, determining appropriate course of Federal action for coming years, hearings, 14020
- Alabama, uranium reconnaissance, preliminary, 13712
- Alaska:
 - aggregate income model of semi-autonomous economy, 14193
 - Alaska-Northwest Canada, economic activities—
 - comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
 - regional, political, and communications aspects of development relations, 14195
 - Alaskan waters, marine services chart, 14968
 - coastal warning facilities chart, 14963
 - earthquake, May 27, 1964, effects on communities (series), 14346
 - economic analysis, subregional, 14199
 - economic indicators, 14198
 - Federal regulation of transportation, 14197
 - graphic arts of Alaskan Eskimo, 14402
 - industries, summary by standard industrial classification and corporate classification, 14200
 - native and Indian Public Health Service hospitals, contract hospitals, field health, annual statistical review, 14780
 - public lands, oil resources development activities, Interior Department's manpower, funding requirements, and capability to oversee, hearing, 14046
 - recreation and government policies, 14196
 - transplanting adult pink salmon to Sashin creek, Baranof Island, and survival of their progeny, 13822
 - westward, native economy and its resource base, 14201
- Alaska, Gulf of, cyclopoid copepod species from plankton, in deep-water, 14860

INDEX

- Albania, background notes, 14895
 Albeni Falls Dam, Pend Oreille River, north-
 ern Idaho, general information, 14147
 Alcohol, revenue rulings, etc., internal revenue
 bulletin, cumulative, index-digest sup-
 plement system, supp., 14414
 Alcohol, Tobacco and Firearms Division,
 available forms relating to activities of
 Division, description, 14410
 Aliens:
 deportation suspension, report, 13869
 green card alien, employment during labor
 disputes, hearings, 13926
 permanent residence, oppose granting to
 certain aliens, 13906
 Alkali metals, preparing alkaliized alumina,
 14557
 Allen, Gabriel, FORTRAN program for ma-
 chine computation of group tables of finite
 groups, 14641
 Allen, James E., Jr.:
 remarks, etc.—
 Aug. 11, 1969, 14132
 Aug. 20, 1969, 14140
 Alliance for progress, *see* Latin America.
 Allowances, *see* Pay, allowances, etc.
 Alloys, rolled Pb-Cd-Sb alloys, tensile and
 stress-rupture properties, 14550
 see also names of metals, etc.
 Alouette satellite, *see* Satellites.
 Alternators, *see* Electric generators.
 Alumina, preparing alkaliized alumina, 14557
 Aluminum, alloys, 7075-T6 and 2024-T3
 aluminum alloy specimens, effect of stress
 ratio on fatigue-crack growth, 14635
 Aluminum oxide, *see* Alumina.
 Amargosa Desert, Nye County, Nev., Geologi-
 cal Survey tracer study, exploratory drill-
 ing, tracer well construction and prelim-
 inary findings, 14360
 Ambulatory service data system, 14778
 AMC, *see* Army Materiel Command.
 American Association of State Highway Offi-
 cials, Electronics Committee, proceedings,
 national conference, 14818
 AMG, *see* Acreage marketing guides.
 Amplifiers, transistor series amplifier, 14762
 Anable, W. E., mass spectrometry, residual
 gas analysis during vacuum melting, 14556
 Analysis, *see* Error analysis.
 Analytical Reference Service studies, 14779
 Anesthetics, inhalation, theories of mecha-
 nism of action, 13627
 Animals:
 damage control, 14248
 laboratory diagnosis of tuberculosis, rec-
 ommended standard procedures, 13540
 Anisotropy, mechanical, and molecular orien-
 tation, in polyethylene, polypropylene, and
 poly(ethylene terephthalate) films, 14628
 Annuities, District of Columbia judges retire-
 ment act of 1964, amend survivor an-
 nuity provisions, report, 14010
 see also Civil service pensions.
 Antarctic regions, Operation Deep Freeze,
 reports, 14756, 14759-760
 Antennas, induction loop antennas for geo-
 magnetic field variation measurements,
 14164
 Anthropologists, supply and demand in edu-
 cational institutions and other settings,
 14808
 Antiballistic missiles, *see* Missiles.
 Antibiotics, streptozotocin (NSC-85998),
 general information, 14684
 Antibodies, *see* Antigens and antibodies.
 Anticorrosives, *see* Corrosion and anticor-
 rosives.
 Antidepressive agents, antidepressant drugs,
 effectiveness, studies, psychopharmacology
 bulletin, 14801
 Antidumping duties, *see* Tariff.
 Antigens and antibodies, TRIC Agent
 urethritis, serological fluorescent antibody
 and associated findings, report, 14517
 Antiseptics, germicidal properties of iodine
 tablets, effect on soft drink mixes, 14510
 Antonio, Franklin Jacinto, *see* Jacinto
 Antonio, Franklin.
 Apollo Project, *see* Project Apollo (man-in-
 space program).
 Appalachian region:
 Appalachian research reports, 13650
 central, potential development, pre-
 liminary analysis, 13650
 Apparel, *see* Clothing.
 Appleman, Herbert S., 2d annual survey
 report on Air Weather Service weather-
 modification program, FY 1969, 13618
 Application of systems approach to training,
 case study, 13793
 Appropriations:
 legislative, 1970, hearings, 13917
 supplemental, 1969, law, 13846
 Appropriations Committee, House, hearings,
 13916-918
 Appropriations Committee, Senate, hearings,
 14015
 Aptitude tests, armed services vocational
 aptitude battery, high school counselors
 manual, 14081
 Arab countries, United States policy in
 Near East crisis, 14906
 Aranda, Diego A., relief, 13951
 Architect of Capitol:
 appropriations, 1970, legislative, hearings,
 13917
 report, semiannual, 13949
 Architects, nuclear defense design, profes-
 sional development courses, 13781
 Architecture, nuclear defense design for
 architects and engineers, professional and
 development courses, 13781
 Area trends in employment and unemploy-
 ment (periodical), 14948
 Area wage survey, *see* Wages.
 Argentina, atomic energy cooperation for
 civil uses, agreement, 14922-923
 Arithmetic, tagged arithmetic, 14619
 Arizona:
 census of business, 1967, selected services,
 area statistics, 13756
 deer and elk use of ponderosa pine forest
 before and after timber harvest, 14282
 electric rate book, 14214
 Arkansas:
 census of business, 1967, retail trade, area
 statistics, 13733
 uranium reconnaissance, preliminary,
 13709
 Armed Forces:
 armed services vocational aptitude battery,
 high school counselors manual, 14081
 how new food products from industry are
 authorized for use by Armed Forces,
 14095
 life insurance, government programs, an-
 nual report, 14960
 officer performance, factorially derived
 information measures for differential
 prediction, 13665
 protective compounds for personnel, 14104
 retired military personnel in Federal jobs,
 questions and answers, 13794
 school system for overseas dependents,
 European area, Defense Dept., GAO
 report, 14323
 uniformed services, health benefits pro-
 gram, 13651
 Armed Forces Information Service, DOD
 pamphlets, 13651
 Armed services, *see* Armed Forces.
 Armed Services Committee, House:
 committee print, 13919
 hearings, 13920
 Armed Services Committee, Senate, hearing,
 14016

Armor :

body armor in hot humid environment, studies in unacclimatized men, 14512
operations, Army field manual, 13654
Arms control, *see* Disarmament.

Army :

airfield and heliport, rigid and overlay pavement design, technical manual, change, 13662
register, Jan. 1, 1969—
departmental edition, 13678-681
document edition, 13851-854
tank program, review, hearings, 13920
transportation movements management, 13656

Army Aviation Materiel Laboratories, technical reports, 13669-677

Army Department :

appropriations, 1970, public works, hearings, 13918
field manual, 13654-656
Natick Laboratories technical reports, 13657
officers' call, the challenge of leadership, pamphlet, 13659
pamphlets, 13658-660
suggestion award portion of incentive awards program, management, GAO report, 14320
technical manuals, 13661-663

Army Materiel Command :

AMC pamphlets, 13652
reports, register of approved recurring reports, 13652

Army National Guard, *see* National Guard.

Army Reserve, reemployment rights, briefing session and program, 13658

ARO, *see* Aerospace Research Office.

ARS, *see* Agricultural Research Service.

Art :

graphic arts of Alaskan Eskimo, 14402
history, 1968, National Gallery of Art, report and studies, 14680
works and reproductions, catalog of copyright entries, 14068
see also Paintings.

Arthropod borne diseases, reported encephalitis in horses and other equidae, 13555

Arthropoda :

arthropoda and miscellaneous phyla, index-catalog, 13544
arthropods of public health significance, pictorial keys, 14799

Artificial satellites, *see* Satellites.

Arts and crafts, native American arts (series), 14402

Asbestos, minerals yearbook chapter, 14521
ASCS, *see* Agricultural Stabilization and Conservation Service.

Ashley, Victor L., relief, 13899

Asia :

east, U.S. foreign aid, 14428
Pacific Coast, tidal current tables, 13798
south, U.S. foreign aid, 1970 proposed program, 14429
southeast—
mainland, environmental conditions relating to harmful insects, 13657
paintings, Air Force lithograph series, 13621

Aspen, grove use by deer, elk, and cattle in southwestern coniferous forests, 14281

Asphalt, membranes, for water seepage control, 14826

Astronautics, space flight investigations, opportunities for participation, 14653

Astronomy, astronomical papers translated from the Russian, 14857-858

ATC, *see* Air traffic.

Atlanta, Ga., airport capacity analysis, 1980 metropolitan area, staff study, 13649

Atlantic Ocean :

east coast, U.S.A., Loran-C table, pair, SS 7-X, 14733
middle, western region, fisheries, agreement with Poland, 14915

Atlantic States :

regional reports, Middle Atlantic region, 14468
south, fisheries, annual summary, 13816
Atlases, catalog of copyright entries, 14067
see also Maps and charts.

Atmosphere :

continuous air monitoring projects, National Air Surveillance Networks, 1964
data tabulations and summaries, Chicago, Cincinnati, Philadelphia, St. Louis, Washington, D.C., 14797
normal and ionized, ground wave propagation, 14166
processing and display experiments using digitized ATS-1 span scan camera data, 14171
turbulent wind field below 150M altitude at Eastern Test Range, investigation, 14582
upper air observations above 30 kilometers, Federal plan, 14172

Atmospheric entry, candidate re-entry blackout suppressants in low-pressure flames, vaporization and decomposition kinetics, 14567

Atmospheric pressure, compressibility data for helium at 0° C and pressures to 800 atmospheres, 14551

Atmospheric temperature, *see* Temperature.

Atomic blasting :

seismic interference and reciprocity for HE row charge, Project Dugout, 13705
underground emplacement of nuclear explosives, construction techniques and costs, Plowshare program, 13708

Atomic energy :

cooperation for civil uses, agreement with—
Argentina, 14922
application of safeguard by IAEA, 14923
Iran, 14927
Portugal, 14918
application of safeguards by IAEA, 14919

New Brunswick Laboratory, research progress report, 13698
understanding nuclear power (remarks), 13725

Atomic Energy Commission :

AEC research and development report, 13685-721
appropriations, 1970, public works, hearings, 13918
cataloging reports, report number series used by Technical Information Division, 13714

Health and Safety Laboratory fallout program, quarterly summary report, 13694
appendix, 13695

news release index, 13684

telephone directory, 13724

Atomic Energy Joint Committee, hearings, 13847

Attention, *see* Vigilance.

Attenuation :

coefficients, photon cross-sections, and energy absorption coefficients from 10 keV to 100 GeV, 14667
noise predicting in acoustically treated ducts for turbofan engines, studies, 14570

Attitude (psychology) :

aircrew attitudes and job-satisfaction, trends, 2-year study, 13630
Attitude control, *see* Satellites.

Attorney General, *see* Justice Department.

Audio-visual education, dentistry, selected list of audiovisuals, 14699

Audiogram, pure tone, relationship to naval aviator's speech discrimination test, 14498

Auditing, Commerce Dept., career, 13803

Aurantioideae, *see* Oranges.

Automation, expansion in terminal ATC facilities, 14936

INDEX

- Automobile license plates, bias in license plate traffic survey response, evaluation, 14814
- Automobiles, recent purchases of cars, houses and other durables and expectations to buy, survey data, 13770
see also Vehicles.
- Aviation, *see* Aeronautics—Aircraft.
- Aviation fields, Army airfield and heliport, rigid and overlay pavement design, technical manual, change, 13662
- Aviation medicine, *see* Medicine.
- Aviation structural mechanics, *see* Mechanics (persons).
- Aviators:
 general-aviation pilot reactions to and opinions on grooved runways, 14591
 naval aviator's speech discrimination test, relationship to pure tone audiogram, 14498
- Awards (incentive), *see* Rewards (prizes, etc.).
- AWS, *see* Air Weather Service.
- Axial compression:
 effect of test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells, 13670
 single-stage, axial compressor component development for small gas turbines, 13675.
- Aykent, Yavuz, relief, 13956
- Ayrshire cattle, *see* Cattle.
- B**
- B.C.F., *see* Commercial Fisheries Bureau.
- B.E.R.C., *see* Biomedical Engineering Resource Corporation.
- Bachman, George O., geology of Bear Peak area, Dona Ana County, N. Mex., 14331
- Background notes, 14890-14903
- Backscatter, ground, computer routines for synthesizing from three-dimensional raysets, 14165
- Bader, J. S. references for well data and water levels in California by Geological Survey, 14356
- Bako, Elmer, Hungarians in Rumania and Transylvania, bibliographical list, 13860
- Balance of payments:
 interest equalization tax act on foreign securities, extend, hearing, 14025
 recent international financial and monetary developments, hearing, 13923
- Ballistic missiles, *see* Missiles
- Balloons:
 moored, Federal aviation regulations, 14186
 unmanned, Federal aviation regulations, 14186
- Banking and Currency Committee, House:
 committee print, 13921
 hearings, 13922-923
- Banking and Currency Committee, Senate:
 hearings, 14017-19
 reports, 13993-994
- Banks and banking:
 bank holding company act amendments proposed changes and additions, text, 13921
 banking and monetary statistics, 14225
 banking community opening opportunities for minority groups at executive level (remarks), 14227
 commercial banks—
 tax treatment, tax reform press releases announcing tentative decisions, 13945
 weekly series, revision, 14234
 small business capital bank, establish, hearings, 14019
 time and savings deposits, changes, 14226
 see also Federal reserve member banks.
- Bara, J. P., controlling expansion of desiccated clays during construction, 14829
- Baranof Islands, Alaska, transplanting adult pink salmon to Sashin Creek, and survival of their progeny, 13822
- Barite, minerals yearbook chapter, 14522
- Barium, chemical release system, development, 14586
- Bark canoes, *see* Canoes and canoeing.
- Barker, Fred, gold investigations in Precambrian clastic and pelitic rocks, southwestern Colorado and northern New Mexico, 14332
- Barnes, Harry H., jr., hydrologic effects of Canal 111 near Homestead, Fla., 14358
- Barns, sheep, housing and equipment, 13586
- Barosh, Patrick J., use of seismic intensity data to predict effects of earthquakes and underground nuclear explosions in various geologic settings, 14333
- Barrie, Robert W., and wife, relief, 13839, 13982
- Barstow formation Mud Hills, San Bernardino County, Calif., diagenesis of tuffs, 14351
- Baseball (game):
 6-cent professional baseball commemorative postage stamp (poster), 14768
- Basic cold weather manual, change, 13655
- Basler, J. A., quality of shallow ground water in Rincon and Mesilla Valleys, N. Mex. and Tex., 14354
- Bates, Carlos G., colossal generating units at third powerplant, Grand Coulee Dam, 14828
- Bathing units, field bath, facilities for troops, change, Army technical manual, 13663
- Batholiths, Glacier Park area, North Cascades, Wash., intrusion and eruption of late Cenozoic magmas, 14347
- Bathymetric charts, *see* Maps and charts.
- Batteries, *see* Storage batteries.
- BCF, *see* Commercial Fisheries Bureau.
- Be safe, be seen, let's shed some light on pedestrian safety, 14781
- Bearings (machinery):
 Brayton rotating unit on rolling-element bearings, design, 14578
- Beautification, highway beautification act of 1965 as amended, hearings, 13939
- Bed springs, *see* Bedsprings.
- Beds, *see* Bedsprings.
- Bedsprings, current industrial reports, 13761
- Beef, slaughtering, cutting, and processing on farm, 13585
- Behavior, *see* Vigilance.
- Behavioral Science Research Laboratory:
 displays in tactical information processing, implications of BESRL research, 13668
 technical research notes, 13664-667
 technical research report, 13668
- Belgium:
 economic trends and their implications for United States, 14423
 mutual defense assistance, agreement, 14929
- Bell, F. Howard, eastern Pacific halibut fishery, 1888-1966, 13820
- Benefit series service, unemployment insurance report, 14954
- Bennett, Burton G., experimental and theoretical studies of transport of gamma rays through slab shields, 13692
- Benson (U.S.S.):
 loan, extension, agreement with Republic of China, 14924
- Berger, M. J., tables of response functions for silicon electron detectors, 14673
- Bernhardt, Audrey, cases decided in Court of Claims, 14073
- Beryllium, minerals yearbook chapter, 14523
- BESRL, *see* Behavioral Science Research Laboratory.
- Beta particles, gross beta activity at selected gaging stations, 14371
- Bettinger, Paula J., tagged arithmetic, 14619

Bibliography:

- AFCKL publications, 19634-635
career development, selected references, 14379
copyright, 14069
disposal of brine effluents from inland desalting plants, 14407
early childhood, 14378
Ghana, guide to official publications, 1872-1968, 14483
helminths of waterfowl (Anatidae), annotated, 14887
highways and their environmental considerations, 14815
highways, new developments in design, etc., newsbriefs, 14816
Hungarians in Rumania and Transylvania, bibliographical list of publications in Hungarian and West European languages, 13860
India, climatological, 13620
landmarks in science, 14520
Latin America and Caribbean, 13660
military history, selected, annotated listing of reference sources in U.S. Military Academy Library, 14519
reactor safety, 13715
research and development, congressional concern, 14035
research reports, High Speed Ground Transportation Office and Northeast Corridor Transportation Project, 14223
small business, 14856
suicide and suicide prevention, 14782
variety stores, 14856
Blenstock, Herbert, address, Mar. 28, 1969, 14462
Big-game habitat, 14250
Bilsel, Yilmaz, relief, 13957
Bilsel, Zeliha, relief, 13958
Bingham, Edgar, environmental conditions relating to harmful insects of mainland southeast Asia, 13657
Bingham County, Idaho, records of observation wells and water fluctuations in Aberdeen-Springfield area, 14355
Bioengineering, *see* Biomedical engineering.
Biological Laboratory, St. Petersburg Beach, Fla.:
contribution, 13817
report, 13817
Biological physics, research project, Radiological Research Laboratory, Columbia University, annual report, 13700
Biological products, produced and destroyed in licensed establishments, list, 13557
Biomedical engineering, development and production, report, 14683
Biomedical Engineering Resource Corporation, report, 14683
Biomedicine, perspectives on human deprivation, biological, psychological, and sociological influences, 14693
Biophysics, *see* Biological physics.
Biotechnology:
laboratory for manned earth orbiting missions—
study, results, recommendations, and requirements, 14580
summary of individual experiments requirements, 14581
Birds:
non-game, ways to attract, 14881
of public health significance, pictorial keys, 14799
protected by Federal law, list, 14888
see also Water birds—*also* names of birds.
Birth control, family planning methods, if you're not ready for another baby, 14121
Bismuth, minerals yearbook chapter, 14524
Bjornson, Bayard P., control of domestic rats and mice, 14784
Blackadar, Alfred K., investigation of turbulent wind field below 150M altitude at Eastern Test Range, 14582
Blackbody, thermal radiation heat transfer, errata, 14595
Blades:
blade-to-blade stream surface of turbomachine FORTAN program for calculating velocities, etc., errata, 14603
full-scale rotor blade stopped in flight, aerodynamic and aeroelastic characteristics, 13676
Blanco, Ernesto E., testimony, hearings, 14049
Bley, Gerry, Tor-Shok reusable energy absorbing protective barrier, 14822
Blight, *see* names of blights or plants affected.
Blood:
cardiac output in squirrel monkey (*Saimiri sciureus*) by thermodilution, repeated or continual measurements, 14496
National Heart Institute's national blood resource program, 14691
RH isoimmunization, hemolytic disease of fetus and newborn due to RH isoimmunization, 13777
Blood pressure, renal diseases and hypertension, Public Health Service cooperative studies, conferences, proceedings, 14800
Blount, Winton M., remarks, Sept. 9, 1969, 14772
Blue Range, primitive area, mineral resources, 14328
Blunt bodies:
family, experimental pressure distributions at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15°, 14637
magnetoaerodynamic flow around body, experimental investigation, 14574
BNDD, *see* Narcotics and Dangerous Drugs Bureau.
Boats, Indian tradeboats, etc., operating on Savannah River during 19th century, 14153
Body armor, *see* Armor.
Body weight, food and your weight, 13590
Boerum, Marie, discover and use your public library, 14855
Boban, J. P., mechanics of flow from stratified reservoirs in interest of water quality, 14156
Boiling water reactors, *see* Reactors (atomic).
Boldman, Donald R., experimental and theoretical turbulent boundary layer development in Mach 4.4 water-cooled conical nozzle, 14625
Bolivia, mineral industry, minerals yearbook chapter, 14537
Boll weevils, *see* Weevils.
Bolts and nuts, nuts, Federal item identification guide, change, 14091
Bonds, *see* Municipal bonds—State bonds.
Bonneville Dam, fish passage report, 14148
BONUS (boiling water nuclear superheat) power reactor, *see* Reactors (atomic).
Bonus (military):
reenlistment bonuses to candidates in officer training programs, cessation of unauthorized payments, GAO report, 14306
Books:
copyright, general information, 14072
new versions and reprints, 14070
Booth, John W., III, relief, 13841, 13976
Booth, Richard F.:
expansion of Naval flight officer student prediction system, 14499
optimal weighting of course grades for 2 naval air training schools, 14500
Boron, minerals yearbook chapter, 14525
Boston, Mass.:
high-speed rail line, grade crossings, eliminate hearings, 13939
passenger lists of vessels arriving, 1848-91, index, pamphlet to accompany microcopy, 14659
Botanic Gardens, appropriations, 1970, legislative, hearings, 13917

INDEX

- Boundary Layer:
turbulent—
at Mach 2.49 and 4.44, flow-field measurements downstream of two protuberances, on submerged flat plate, 14608
experimental and theoretical development in Mach 4.4 water-cooled conical nozzle, 14625
- Bowers, Chester G., opportunities for development of national airport system, 13648
- Bowie, Martha G., foreign regulations affecting U.S. textile/apparel exports, 13726
- Boyer, Dennis L., annotated climatological bibliography of India, 13620
- Brachiopods, Permian, new from west Texas, 14859
- Brackets, for light helicopter cargo hooks, 14259
- Braddock, William A., geology of Empire quadrangle, Grand, Glin, Clear Creek counties, Colo., 14349
- Brayton cycle:
Brayton rotating unit on rolling-element bearings, design, 14578
1200 Hertz Brayton-cycle space-power system, using 14.3-kilovolt-ampere modified Lundell alternator, performance characteristics, 14643
- Brazil, background notes, 14896
- Breeder reactors, *see* Reactors (atomic).
- Bremsstrahlung radiation, and electron transmission, experimental study, 14572
- Bridger National Forest, general information, 14251
- Briefing on reemployment rights of members of Army National Guard and Army Reserve, 13658
- Briggs, Ted C., compressibility data for helium at 0°C and pressure to 800 atmospheres, 14551
- Brimmer, Andrew F., remarks, Aug. 28, 1969, 14227
- Brines, effluents, disposal from inland desalting plants, review and bibliography, 14407
- Brink, Lawrence, relief, 13895
- British Columbia, sailing directions, change, 14726
- British Honduras, background notes, 14890
- British Isles, *see* Great Britain.
- Broilers, *see* Chickens.
- Brown, George H., nomination, hearing, 14059
- Brown, William T., soil survey, Lake County, Tenn., 14875
- Brown spot needle blight of longleaf pine, 14263
- Brown Swiss cattle, *see* Cattle.
- Bruce, Louis R., nomination, hearing, 14043
- Brush, selective control on chapparrel watersheds with soil-applied fenuron and picloram, 14283
- Bryan, D. E., rearing cotton insect parasites in laboratory, 13605
- Bubble Chambers, low level counting, basic development and applications, final report, 13697
- Buchanan, Henry, battery life and moisture penetration of subdermally implanted devices, 13633
- Buckley, John D., effects of cyclic heating and thermal shock on hafnia stabilized with calcia, magnesia, and yttria, 14607
- Buckling, *see* Strains and stresses.
- Budget Bureau, opportunity for Geological Survey to increase revenues through changes in map-pricing practices, GAO report, 14322
- Budget of United States, planning-programming-budgeting, innovations in State and local governments, 13848
- Budgets, *see* names of departments, etc.
- Budworms, western, estimating defoliation of Douglas-fir and white fir, 14287
- Buffalo National River:
establish—
hearing, 14041
report, 14008, 14041
- Buffers, effects of buffering systems on lactic acid production in rat liver slices, 13631
- Building:
construction of new VA hospital in southern California, hearings, 13943
Hill-Burton hospitals and related health facilities, representative costs, 14805
hospitals and medical facilities construction and modernization amendments of 1969, hearings, 14056
multifamily housing construction in New York City, cost and time associated with, 14396
operational review guide, GSA handbook, 14776
- Building science series, 14662
- Buildings, high-rise, computer program to analyze dynamic response to nuclear blast loading, 13783
- Bulletins, *see* Farmer's bulletin—*also* names of departments, etc., issuing bulletins.
- Bulls, DHIA sire summary list, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, 13538
- Buoyancy, materials, optimum packing of hollow spheres, 14752
- Burgess, Carter L., nomination, hearing, 14018
- Burgin, Vera E., decisions of United States Department of Interior, 14400
- Burma, mineral industry, minerals yearbook chapter, 14538
- Burns project, Douglas-fir tussock moth control, Malheur and Ochoco National Forests, 1965 surveillance, 14295
- Business:
American business to compete successfully in world markets, National and regional export expansion councils helping, general information, 13806
census, 1967—
EC series, 13754-755
retail trade area statistics, 13733-753
selected services, area statistics, 13756-757
income tax returns, statistics, 14416
management aids for small manufacturers, 14855
private programs for minority business enterprise, directory, 13804
small business—
bibliographies, 14856
impact of crime, hearings, 14062
investment act of 1958, amend—
hearings, 14019
reports, 13993-994
small business act, amend, hearings, 14019
small business investment companies, capital bank, establish, hearings, 14019
small business legislation of 1969, hearings, 14019
- Business consolidations, corporate mergers and other problems, tax reform, press releases announcing tentative decisions, 13945
- Business men, guide to specifications and standards of Federal Government, 14325
- Buss, Linda, manpower research institutional grant program, first 3 years, 14439
- Butler, Gilbert L., application of strain gages in Bureau of Reclamation test programs, 14825
- Buying, *see* Purchasing.
- Bye, Roger A., summary of Alaskan industries by standard industrial classification and corporate classification, 14200

C

C.A.B., *see* Civil Aeronautics Board.
C.F.S. series, 13811-816

- CAB, *see* Civil Aeronautics Board.
 Cabriolet Project, *see* Project Cabriolet (field cratering experiment).
 Cagle, Caroline H., changes in time and savings deposits, 14622
 Calaveras Creek, San Antonio River basin, Tex., compilation of hydrologic data, 14338
 Calcia, *see* Calcium oxide.
 Calcium, removal from sea water by continuous counter-current ion exchange to prevent scaling of distillation equipment, errata, 14403
 Calcium oxide, hafnia stabilized with, effects of cyclic heating and thermal shock, 14607
 Calif, *see* Calves.
 Calibration:
 calibration and test services of National Bureau of Standards, supplement, 14664
 gamma probe calibration tests, 14833
 vacuum gage, from 10⁻⁸ to 10 torr, volume-ratio system, evaluation, 14644
 California:
 Agricultural Stabilization and Conservation Service programs administered by counties, by congressional districts, 13560
 Indians, land value, compensate, report, 14004
 northwestern, variations in low-water streambed elevations at selected stream-gaging stations, 14373
 nutrition and human needs, hearings, 14058
 southern, VA hospital construction, hearings, 13943
 well data and water levels, references by Geological Survey, 14356
 Calves, calf crop, 14931
 Camacho, Carlos G., nomination, hearings, 14044
 Cambodia, background notes, 14893
 Cameras, digitized ATS-1 spin scan camera data used in processing and display experiments, 14171
 Camille, food help, picture story, 13603
 Campbell, James P., supersonic aerodynamic characteristics and shock standoff distances for large-angle cones with and without cylindrical afterbodies, 14613
 Campbell, Wallace H., induction loop antennas for geomagnetic field variation measurements, 14164
 Campgrounds, *see* Camps.
 Camping:
 and picnicking in—
 Eldorado National Forest, 14252
 Tahoe National Forest, 14253
 Camps, public campgrounds on San Bernardino National Forest, general information, 14277
 Campuses, *see* Colleges and universities.
 Can you find it? 14074
 Canada:
 Alaska-Northwest Canada, economic activities—
 comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
 regional, political, and communications aspects of development relations, 14195
 economic trends and their implications for United States, 14422
 Canadian border to Eureka, Calif., coastal warning facilities chart, 14963
 Canals, Canal 111 near Homestead, Fla., some hydrologic effects, 14358
 Cancer, cancer quacks, danger, 14685
 Canning, *see* names of commodities canned or preserved.
 Cannon, Ralph S., Jr., lead isotope guides for Mississippi Valley lead-zinc exploration, 14335
 Canoes and canoeing, canoes, Indian trade-boats, etc., operating on Savannah River during 19th century, 14153
 Canton, Ohio, area wage survey, 14456
 Cantrell, George K., trends in aircrew attitudes and job-satisfaction, 2 year study, 13630
 Canyonlands National Park, general information, 14700
 Capacitor, fixed, Federal item identification guide, 14085
 Capital, restricted transfers to foreign countries by substantial investors in United States, etc., 14432
 see also Investments.
 Capital of United States:
 crime in National Capital, hearings, 14022-23
 Washington, D.C., working, living, learning, playing where the action is, 13792
 Capone, Francis J., subsonic performance characteristics of large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system, 14610-611
 Capsules (spacecraft), *see* Spacecraft.
 Capture, ion-molecule collisions with long-lived capture complexes computer plotting description, 14645
 Carbides, *see* Niobium carbide—Zirconium carbide.
 Carbon dioxide:
 effects on lactic acid production in rat liver slices, 13631
 exchange of tree seedlings in laboratory, assimilation chamber for measuring, 14286
 Cardiac activity, *see* Heart.
 Cardiac output, *see* Blood.
 Careers, *see* Civil service—Occupations.
 Cargo handling, bracket for light helicopter cargo hooks, description, 14259
 see also Materials handling.
 Caribbean area, and Latin America, analytical survey of literature, 13660
 Caribou Targhee Bridge National Forests, Palisades Reservoir, recreation map, 14280
 Carpenter, J. B., catalog of genera, species, and subordinate taxa in orange subfamily Aurantioidae (Rutaceae), 13537
 Cars, *see* Automobiles.
 Carter, Horace S., climates of States, Georgia, 14159
 Cascade Range:
 national forests in Oregon, management direction for wilderness and primary recreation zones, 14269
 North Cascades, Glacier Peak area, batholiths and volcanoes, intrusion and eruption of late Cenozoic magmas, 14347
 Castelnovo, Anthony E., effects of spectrum sampling on speech intelligibility, 13667
 Cataloging, Atomic Energy Commission, report number series used by Technical Information Division, 13714
 Catalogs:
 Commerce Department publications, 1968 supplement, 13810
 copyright entries, 14067-68
 correspondence course, Coast Guard reserve personnel on inactive duty, 13800
 medical and veterinary zoology, 13542-544
 orange subfamily Aurantioidae (Rutaceae), genera, species, and subordinate taxa, 13537
 parasite subject catalogues, 13542
 Werner Drewes woodcuts, exhibition, 14677
 Catheters, cardiac catheters, simple method for percutaneous introduction, 14497
 Catron County, N. Mex., mineral resources of Blue Range primitive area, 14328
 Cattle:
 aspens grove use in southwestern coniferous forests, 14281
 DHIA sire summary list, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, 13538
 CCR, *see* Civil Rights Commission.

INDEX

- Cenozoic era, magmas, intrusion and eruption as source of batholiths and volcanoes in Glacier Peak area, North Cascades, Wash., 14347
- Census:
- about census 1970, general information, 13732
 - business, manufactures, mineral industries, 1967 EC series, 13754-755
 - business, 1963, selected services, area statistics 13756-757
 - business 1967, retail trade area statistics, 13733-753
 - census tabulation available on computer tape series, 13771-772
 - census use study reports, 13759
 - 1970 photo log, 13758
 - see also subjects.
- Census Bureau:
- Director, nomination of George H. Brown, hearing, 14059
 - technical paper, 13775
- Central States:
- north-central—
 - ground-water levels, 14377
 - regional reports, 14465-466
 - union contract expirations, 14465
- Certificates, see types of certificates or subject involved.
- Cesium:
- portable cesium irradiator—
 - operational reports, 13701
 - visit to Washington State, 13702
- Chad, Lake, basin, Nigeria, water-well corrosion, preliminary study, 14344
- The challenge of leadership, 13659
- Chamber devices:
- assimilation chamber for—
 - measuring carbon dioxide exchange of tree seedlings in laboratory, 14286
 - outdoor measurement of photosynthesis of tree seedlings, 14285
 - injection element radial distribution and chamber geometry, effect of, on acoustic-mode instability in hydrogen oxygen rocket, 14623
- Chambers, Joseph R., analysis of lateral-directional stability characteristics of twin-jet fighter airplane at high angles of attack, 14616
- Chamis, Christos C., failure criteria for filamentary composites, 14618
- Champlain, Lake, and its tributary basin, New York, Vermont, pollution of interstate waters, conference proceedings, 14240
- Changing patterns of costs and structure in health sector (address), 14462
- Channels, speech intelligibility in stationary multipath channel, 14515
- Chaparral:
- grazing values of undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
 - watersheds, selective control of brush with soil-applied fenuron and picloram, 14283
- Charitable institutions:
- tax exempt foundations, their impact on our economy, 13942
 - tax treatment, tax reform, press releases announcing tentative decisions, 13945
- Charitable trusts, tax-exempt, their impact on our economy, 13942
- Charities, charitable contributions, tax treatment, press releases announcing tentative decisions, 13945
- Charleston, W. Va., area wage survey, 14454
- Chartener, William H., statement, Aug. 27, 1969, 13809
- Checkout, survey of current debugging concepts, 14576
- Chemical equilibrium, see Equilibrium.
- Chemical reactions:
- barium chemical release system, development, 14586
- Chemical reactions—Continued
- gaseous reactants, experimental measurements of expanding storable-propellant products simulated by combustion, 14642
- Chemicals:
- agricultural, registered pesticides, fungicides and nematocides, summary of uses, 13556
 - symbols for packages and containers for hazardous industrial chemicals and materials, military standard, 14108
 - see also Organic compounds.
- Chemistry, see Radiochemistry.
- Cheng-Huai Li, see Li, Cheng-Huai.
- Chertkov, Morris, Federal regulation of transportation in Alaska, 14197
- Chesapeake Bay:
- coastal warning facilities chart, 14966
 - fisheries, 1967 annual summary, 13813
- Cheyenne River Sioux Tribe, see Sioux Indians.
- Chiang-Huai Li, see Li, Cheng-Huai.
- Chicago, Ill., data tabulations and summaries 1964, continuous air monitoring projects, National Air Surveillance Networks, 14797
- Chickens, broiler marketing guide, supplement, 14066
- Children:
- acquisition and development of values, perspectives on research, conference report, 14682
 - child nutrition and school food assistance, hearings, 14058
 - children with learning disabilities act of 1969, hearings, 13924
 - early childhood, bibliography, 14378
 - education in federally affected areas, 1968 annual report, 14127-128
 - food for families with young children, 13587
 - gifted and talented children educational assistance act, hearing, 13927
 - handicapped, selected projects under P.L. 89-313 and title 6-A, ESEA, 14143
 - me, a cry for help, 14120
 - obscene material sold or offered for sale to minors, exclude from U.S. mails as nonmailable, hearings, 13936
 - prelude to school, evaluation of inner city preschool program, 13778
 - small fry smiles, guide for teaching dental health in community care programs, 14696
- Children's Bureau:
- publications for parents, list, 13776
 - research reports, 13778
- Chilman, Walter J., Isthmian Canal demand forecast, economic analysis of potential tonnage traffic, 14944
- China, Republic, loan of vessels, U.S.S. Benson, U.S.S. Hilary P. Jones and U.S.S. Plunkett, extension, agreement, 14924
- Chirichiello, John R., R & D in aircraft and missiles industry, 14716
- Chlorides, chloride vapor deposited tungsten emitter (110) and nickel collector, thermionic converter, with characteristics, 14587
- Choreography, choreographic works, 14071
- Christmas trees, directory, Oregon and Washington growers, wholesalers, and retailers, 14254
- Chromosphere, see Sun.
- Ciarrocchi, Joyce D.:
- index to passenger lists of vessels arriving at—
 - Boston, 1848-91, 14659
 - New Orleans, 1820-1902, 14658
- Cincinnati, Ohio, data tabulations and summaries 1964, continuous air monitoring projects, National Air Surveillance Networks, 14797
- Circuits, parameters to be controlled for specification of microcircuits, military standard, 14106

- Circulars, *see* names of departments, etc.,
issuing circulars.
- Cities and towns:
- Alaska, earthquake of Mar. 27, 1964, effects on various communities, 14346
 - community improvement, workable program, HUD handbook, 14386
 - EDA, building communities with jobs, 14118
 - housing and urban development legislation of 1969, hearings, 14017
 - inner city—
 - education problems of handicapped (remarks), 14132
 - prelude to school, evaluation of pre-school program, 13778
 - metropolitan areas, statistics, 13773
 - model cities program, address, 14383
 - occupational earnings and wage trends in metropolitan areas, 14467
 - urban poverty, facts, 14472
 - urban transportation, research and planning projects, 14394
 - wage trends for occupational groups, 14481
 - work and workers in urban environment, some aspects of changing patterns, 14470
- Citizens of United States, customs hints for returning residents, know before you go, 14075
- Civil Aeronautics Board:
- air carriers, acquisition of control, unlawful without CAB approval, amend act, hearings, 14021
 - United States air carriers, list, 13779
- Civil defense, *see* Civilian defense.
- Civil Defense Office:
- leaflets, 13781-782
 - technical reports, 13783
- Civil disorders, *see* Riots.
- Civil disturbances, *see* Riots.
- Civil engineering:
- electrical facilities safe practices handbook, Air Force pamphlet, 13615
 - general, resources and work force management, Air Force manual, change, 13612
- Civil rights, complaints, who will listen? 13784
- Civil Rights Commission, Clearinghouse publications, 13784-785
- Civil service:
- careers—
 - development, selected references, 14379
 - opportunities, scientific, in Agricultural Research Service, 13595
 - examination announcements—
 - current, 13787
 - historian, amendment, 13786
 - manpower analyst, amendment, 13786
 - nursing careers in Federal service, 13789
 - places where held, 13795
 - veterinarian trainee, summer employment, 13797
 - job opportunities, local and regional examinations, 13788
 - opportunities for Federal employment, returning Peace Corps volunteers, 13791
 - Washington, D.C., working, living, learning, playing where the action is, 13792
 - working for U.S.A., applying for job, etc., 13790
 - see also* Government officials and employees.
- Civil Service Commission, pamphlets, 13790-793
- Civil service pensions, Federal classified and postal employees, retirement annuity increases, 13938
- Civilian defense, the Grange and civil defense programs, 13782
- Claims:
- livestock, packers and stockyards act can help you recover losses, 13598
 - Trust Territory of Pacific Islands against Japan, agreement, 11925
- Clarke, Frank E.:
- preliminary evaluation of corrosion and encrustation mechanisms in tube wells of Indus Plains, west Pakistan, 14343
 - preliminary study of water-well corrosion, Chad Basin, Nigeria, 14344
 - selection of metal components for long-term development of Egypt's corrosive ground waters, 14357
- Clarke, Thomas H., nomination, hearing, 14018
- Classification:
- government publications available to depository libraries, list of classes, 14777
 - Library of Congress, class K, subclass KP, law of United States, 14482
 - see also* names of substances, objects, etc., classified.
- Clay, desiccated clays, controlling expansion during construction, 14829
- Cle Elum Ranger District, Wentachee National Forest, trail trips, 14255
- Clear Creek, Colo., Empire quadrangle geology, 14349
- Clear-cutting, alternate-strip, of lodgepole pine and spruce-fir timber in Colorado, response of deer, 14284
- Clemons, Clarence A., summaries of solid wastes program contracts, 14809
- Climate:
- classification model for sprinkler irrigated agriculture, 14841
 - climatology of United States—
 - climates of States, 14159-162
 - climatic summaries of resort areas, 14158
 - India, annotated climatological bibliography, 13620
- Climatology, *see* Climate.
- Clinical Center, National Institutes of Health, dietetic manual for metabolic kitchen units, 14686
- Clinics:
- ambulatory service data system, 14778
 - physical fitness, 14774
- Clothing:
- field clothing exchange operations, Army technical manual, changes, 13663
 - U.S. textile/apparel exports, foreign regulations affecting, 13726
- Clubs, *see* 4-H clubs.
- Clutter, *see* Radar.
- Coal, coal-fired gas turbine, Mines Bureau research project, test of combustor and ash separators for open-cycle plant, 14558
- Coal mines and mining, health and safety of coal miners, improve working conditions, hearings, 14033
- Coast Guard:
- oceanographic reports, 13801
 - reserve personnel on inactive duty, correspondence course catalog, 13800
- Coastal Engineering Research Center, technical memorandums, 14149
- Coastal warning facilities charts:
- Canadian border to Eureka, Calif. and Alaska, 14963
 - Eastport, Me. to Montauk Point, N.Y., 14964
 - Eureka to Point Conception, Calif., 14965
 - Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 14966
- Coaxial cables, *see* Electric cables.
- Cobalt, alloys, in high velocity gas stream, oxidation and thermal fatigue cracking, 14624
- Coefficients, attenuation and energy absorption, and photon cross sections from 10 keV to 100 GeV, 14668
- Cohen, Edwin S., remarks, Aug. 9, 1969, 14950
- Cohen, Gerald A.:
- evaluation of configuration changes on optimum structural designs for Mars entry capsule, 14585

INDEX

- Cohen, Gerald A.—Continued
structural optimization of sandwich and
ring-stiffened 120 degree conical shells
subjected to external pressure, 14589
- Cohen, R., design of Brayton rotating unit on
rolling-element bearings, 14578
- Colby, Donald S., mineral resource valuation
for public policy, 14530
- Cold, cryotherapy in treatment of snake en-
venomation, 14507
- Cold Regions Research and Engineering Lab-
oratory, technical report, 13653
- Cole, John W.:
magnesium, 14534
magnesium compounds, 14535
- Cole, Samuel J., relief, 13884, 13950
- Collective bargaining:
economic climate, facts, 14473
major agreements, plant movement, trans-
fer, and relocation allowances, 14451
see also Industrial relations.
- College students, *see* Students.
- College work-study program, *see* Colleges and
universities.
- Colleges and universities:
American, 1970-71 foreign curriculum con-
sultant program, 14135
associate degrees and other formal awards
below baccalaureate in higher educa-
tion, 14129
campus disorders, extent of subversion,
hearings, 14049
campus riots and disorders, Oct. 1967-
May 1969, staff study, 14037
higher education programs in foreign lan-
guage and area studies, research and
training opportunities abroad, 14142
library statistics, fall 1967, data for indi-
vidual institutions, 14138
manpower research institutional grant
program, first three years, 14439
sociologists and anthropologists, supply
and demand in educational institutions,
14808
student disturbances act of 1969, hearing,
14051
work-study program, 1969-70 allocations
of Federal funds, 14052
see also Dissertations.
- Collisions, *see* Marine accidents.
- Collisions (electronic):
ion-molecular, with long-lived capture
complexes, computer plotting descrip-
tion, 14645
- Colombia, mineral industry, minerals year-
book chapter, 14539
- Color codes, webbing, textile, manufacturers'
identification, military standard, 14111
- Colorado:
electric rate book, 14215
national forests, multiple use of resources,
14272
response of deer to alternate-strip clear-
cutting of lodgepole pine and spruce-fir
timber, 14284
San Juan primitive area, mineral re-
sources, 14329
southwestern, Precambrian clastic and pe-
llic rocks, gold investigations, 14332
- Colorado River and Valley:
basin, mineral pollution problem, general
background, 14243
basin pilot project, Project Skywater, con-
ference proceedings, 14837
fish passage report, Bonneville, The Dalles,
and McNary Dams, 14148
- Columbium carbide, *see* Niobium carbide.
- Columns, use of small and large displace-
ment data from essentially elastic buckling
tests on columns and plates to correlate
theory and experiment, 13673
- Colville River and Valley, basin, Stevens
County, Wash., streamflow characteristics,
14336
- Combat, aviation combat criterion, devel-
opment, preliminary report, 14502
- Combustion, solid-propellant combustion in-
stability and role of velocity coupling,
14639
- Combustors, annular gas turbine combustors,
analysis of total-pressure loss and air-
flow distribution, 14631
- Commerce:
foreign trade and tariff proposals, hear-
ings, 13944
foreign trade, containerization and docu-
mentation in inter-American trade (re-
marks), 14209
summaries of trade and tariff information,
14939
trade, Savannah River highway, steam-
boats, etc., operating during 19th cen-
tury, 14153
waterborne, regulation of foreign carriers
(remarks), 14210
world markets, National and regional ex-
port expansion councils helping Ameri-
can business to compete successfully,
general information, 13806
- Commerce Committee, Senate, hearings,
14020-21
- Commerce Department:
auditing career, 13503
publications, catalog and index, 1968 sup-
plement, 13810
- Commercial banks, *see* Banks and banking.
- Commercial Fisheries Bureau:
BCF acoustical workshop, proceedings,
13821
biological laboratories, St. Petersburg
Beach, Fla., report, 13817
circulars, 13817-819
Great Lakes Fishery Laboratory, Ann Ar-
bor, Mich., general information, 13819
La Jolla, Calif., digital data logger STD
tapes, processing, 13823
special scientific reports, fisheries series,
13822-823
- Commercial products:
foreign, available for production in U.S.
under license agreements, 14424
product standard PS (series), 14668-669
recent purchases of cars, houses, and other
durables and expectations to buy, sur-
vey, data, 13770
underrated merchandise, shipper's obliga-
tions and consumer's rights, 14238
- Commercial treaties, trade expansion act of
1968, proposals, hearings, 13944
- Commission on Government Procurement, *see*
Government Procurement Commission.
- Communicable diseases, *see* Contagion and
contagious diseases.
- Communication satellites, *see* Satellites.
- Communications, Alaska-Northwest Canada,
regional, political, and communications
aspects of development relations, 14195
- Communities, *see* Cities and towns—Rural
communities.
- Community development programs, workable
program for community improvement,
HUD handbook, 14386
- Community health services, *see* Health.
- Companies, pipeline, cost of pipeline and
compressor station construction under
non-budget type of certificate authoriza-
tions as reported in fiscal year 1968, 14212
- Compensation, *see* Salaries—Wages.
- Complaints, civil rights, who will listen?
13784
- Composite materials, filamentary composites,
failure criteria, 14618
- Compounds, *see* names or classes of com-
pounds or purpose for which used.
- Compressed gas, *see* Gases.
- Compressible flow, *see* Flow.
- Compression, compressive strength of ti-
tanium skin-stringer panels, influence of
various fabrication methods, 14634

- Compressors:
 pipeline companies and cost of pipeline and compressor station construction under non-budget type of certificate authorizations as reported in fiscal year 1968, 14212
 single-stage axial compressor component, development for small gas turbines, 13675
 supersonic compressor stage development, 13675
- Comptroller General, *see* General Accounting Office.
- Computer programs/programming:
 dynamic response of high rise buildings to nuclear blast loading, analyze, 13783
 ground backscatter from three-dimensional raysets, computer routines for synthesizing, 14165
 nonlinear regression problems, general computer program for solving, 14531
 Computers, computer mapping, 13759
see also Electronic computers—Electronic data processing system.
- Conduct of life, acquisition and development of values, perspectives on research, conference report, 14682
- Cones, large-angle, with and without cylindrical afterbodies, supersonic aerodynamic characteristics and shock standoff distances, 14613
- Confederated Salish and Kootenai Tribes of Flathead Indians, *see* Flathead Indians—Kootenai Indians.
- Conferences, congresses, etc., Institute of History of Natural Science and Technology, 10th scientific conference, transactions, 14651
see also names of conferences, etc.—*also* subject of conference.
- Configurations, aerodynamic interference effects caused by parallel-staged aerodynamic configurations at Mach numbers of 3 and 6, 14627
- Congo (Brazzaville):
 background notes, 14897
- Congress of United States:
 concern with research and development, bibliography, 14035
 congressional record, 90th Cong., 2d sess., bound volumes, 13524–829
 members, appointment to civil office prior to pay increase, opinion of Attorney General, 14433
- Congressional record, *see* Congress of United States.
- Congressional serial set, 13830–833
- Conical shells, *see* Shells (structural).
- Connecticut, electric rate book, 14216
- Conscription, you and the draft, 14853
- Conservation, *see* Natural resources—Soil Conservation—*also* subjects.
- Constitution of United States:
 amend to revise electoral college reform, hearings, 14048
 amendment, election of the President and the Vice President, hearings, 13940
- Construction, *see* Building—Earthwork and structures.
- Construction industry, rising construction costs and anti-inflation policies, report on Western Europe, 14464
- Consuls, U.S. dispatches from Guaymas, Mexico, 1582–96, pamphlet to accompany microcopy, 14660
see also Foreign Service.
- Consultants, foreign curriculum consultant program, for American schools, colleges and State departments of education, 14135
- Consumer Affairs Department, establish, hearings, 14034
- Consumer and Marketing Service:
 PMG series, 14066
 poultry plants, federally inspected, enforcement of sanitary, facility, and moisture requirements, GAO report, 14315
- Consumer credit, *see* Credit.
- Consumer goods, *see* Commercial products.
- Consumer Research Institute, establish, hearings, 14034
- Consumer Safety Office, establish, hearings, 14034
- Consumers:
 buying indicators, series, 13770
 consumer bulletins, 14238
 unordered merchandise, shipper's obligations and consumer's rights, 14238
 utility consumers' counsel act of 1969, hearings, 14038
- Contagion and contagious diseases, grants for communicable disease control, authorization, hearings, 14054
- Containers:
 containerization in inter-American trade (remarks), 14209
 containerships under construction and on order (including conversions) in United States and foreign shipyards—June 30, 1968, list, 14485
 Dec. 31, 1968, list, 14486
 flag containerships and flag ships with partial capacities for containers and/or vehicles, U.S. list, 14493–494
 symbols for hazardous industrial chemicals and materials, military standard, 14108
- Contamination, radium in aircraft instrument repair facilities, evaluation, 14790
- Contractor report NASA CR (series), 14567–571
- Contractors:
 FIIA property improvement loans, guide, 14388
 value engineering, design or manufacture simplification performed by contractors, opportunities for increased savings by improving management, Defense Dept., GAO report, 14321
- Contracts:
 summaries of solid wastes program contracts, 14809
 union, expirations 1969–70, in north central region, 14465
 unordered merchandise, shipper's obligations and consumer's rights, 14238
see also Government contracts.
- Cooper, G. Arthur, new Permian brachiopods from west Texas, 14859
- Cooper, James D., kyanite and related minerals, 14532
- Coordination tests, Step Test of motivation to excel, 14518
- Coots, hunting, possession, transportation, and/or importation, 1969–70, in United States, etc., Federal regulations governing, 14884
- Copepods, five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska, 14860
- Copolymers, *see* Polymers and polymerization.
- Copyright:
 bibliography, 14069
 books, general information, 14072
 catalog of copyright entries, 14067–68
- Copyright Office, circulars, 14069–72
- Cordova, R. M., selected hydrologic data, Southern Utah and Goshen Valleys, Utah, 14361
- Corporations, tax reform, press releases announcing tentative decisions, 13945
- Correspondence schools and courses, catalog Coast Guard Reserve personnel on inactive duty, 13806
- Corrosion and anticorrosives:
 corrosion and encrustation mechanisms of Indus Plains, West Pakistan, preliminary evaluation, 14343
 corrosion and protection of steel piling in seawater, 14149

INDEX

- Corrosion and anticorrosives—Continued
 Egypt's corrosive ground waters, selection of metal components for long-term development, 14357
 metals in tropical environments, 14744
 water-well corrosion, Chad Basin, Nigeria, preliminary study, 14344
- Cosmology, red-shift-magnitude relation and observational data, 14640
- Cossette, Ludger J., relief, 13885
- Cost:
 and time associated with new multi-family housing construction in New York City, 14396
 rising construction costs and anti-inflation policies, report on Western Europe, 14464
see also subjects.
- Cost and standard of living:
 living conditions, New York City, facts, 14474
 living costs and food prices, background material, 14471
- Cotton:
 field-exposed, spinning performance and yarn quality as affected by lint color and trash in 1966-67 crop, 13594
 insect parasites, rearing in laboratory, 13605
 insects, rearing in laboratory, 13604
 production, 1968 crop, 13760
 quality—
 1968 crop, 14064
 supply, disappearance, carry-over 1968-69 crop, 14065
 upland, cost of producing in United States, supplement, 14123
- Couch, Lana M., flow-field measurements downstream of two protuberances on flat plate submerged in turbulent boundary layer at Mach 2.49 and 4.44, 14608
- Coulter, Bernard L., relief, 13979
- Counseling, girls, their special needs, expanding opportunities, 14969
- Counselors, high school manual. Armed services vocational aptitude battery, 14081
- Countries, *see* Foreign countries.
- Couplings:
 mechanisms with elastic couplings, dynamics and stability, 14650
 velocity, role in solid-propellant combustion instability, 14639
- Courses of study, *see* Curriculum.
- Court of Claims, cases decided, Dec. 1, 1968-Feb. 28, 1969, 14073
- Courts, court leave for employees of United States and District of Columbia, correct inequities, report, 13907
see also District courts—*also* names of courts.
- Cows, milk cows on farms, June 1969, 14934
see also Dairy herd improvement associations.
- Coxe, Tench, letters as Commissioner of Revenue, 1794-96, on procurement of military, naval, and Indian supplies, pamphlet to accompany microcopy, 14657
- Cracking of metals, *see* Fracture of metals.
- Craggs, A., transient response of coupled acousto-mechanical systems, 14588
- Cranberries, indicated production, 14932
- Crandell, Dwight R., geologic story of Mount Rainer, 14334
- Cranes (birds):
 hunting, possession, transportation, and/or importation 1969-70, in United States, etc., Federal regulations governing, 14884
- Cranston, George E., general-aviation pilot reactions to and opinions on grooved runways, 14591
- Craters, preshot geologic and engineering properties, Project Buggy, 13704
- Credit:
 foreign credits of United States Government, 14949
 truth in lending, consumer credit cost disclosure amendment to Federal Reserve regulation Z, 14233
 errata, 14228
- Credit unions, *see* Federal credit unions.
- Crescent City, Calif., tsunami model, theoretical in design of proposed, 14155
- Crews, *see* Fight crews.
- Crime and criminals:
 crime in National Capital, hearings, 14022-23
 organized crime activities and related areas, measures against, hearings, 14050
 organized crime control act of 1969, hearings, 14050
 riots, civil and criminal disorders, investigation, hearings, 14036
 small business, impact of crime, hearings, 14062
- Crimi, Peter, method for analyzing aeroelastic stability of helicopter rotor in forward flight, 14568
- Criminal law, organized crime activities and related areas, measures against, hearings, 14050
- Criminal procedure, organized crime activities and related areas, measures against, hearings, 14050
- Cripple Creek, gold and other metals in district, distribution, 14350
- Crooked River National Grassland, general information, 14275
- Crops, *see* names of crops.
- Cross sections, photon, attenuation coefficients, energy absorption coefficients from 10 keV to 100 GeV, 14667
- Crouch, Glenn L., surveillance report, 1965 Burns project, Douglas-fir tussock moth control, 14295
- Cryotherapy, *see* Cold.
- Crystals:
 110 planes, characteristics of thermionic converter with fluoride vapor deposited tungsten emitter etched to preferentially expose, 14571
 silver single, dislocation pipe diffusion, 14745
- Current fishery statistics, C.F.S. series, 13811-816
- Current industrial reports, 13761-762
- Curriculum:
 electrical appliance serviceman, suggested guide for training course, 14133
 Environmental Control Administration, training institute, bulletin of courses, 14810
 foreign, consultant program for schools, colleges, and State departments of education, 14135
 forestry, suggestions for integrating in modern curriculum, 14294
 recreation program leadership, suggested 2-year post high school curriculum, 14141
- Curtiss, Howard C., jr., investigation of dynamic stability characteristics of quad configuration, ducted-propeller V/STOL model, 13669
- Customs, *see* Tariff.
- Customs Bureau, career opportunities, can you find it? 14074
- Cusumano, Vita, relief, 13840, 13978
- Cyclopoidae, *see* Copepods.
- Cylinders, annular, natural frequency of liquid under low gravitational conditions, 14648

D

D.H.I.A., *see* Dairy herd improvement as associations.

Dairy herd improvement associations:

DHIA cow performance index list, registered progeny of DHIA sires, 13539
sire summary list, Ayreshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, 13537

Daley, John C., upwind-downwind-crosswind sensor measurements, 14748

The Dalles Dam, fish passage report, 14148

Damage control, animal, general information, 14248

Dams:

sealing dam surfaces, isothermal compressible flow with relative rotation, analysis, 14614

storage and reservoirs on Bureau of Reclamation projects, statistical compilation, 14842

see also names of dams or bodies of water.
Dangerous articles, see Hazardous substances.

Data, see subjects.

Data access descriptions, 13771-772

Data processing, see Electronic data processing systems.

Davis, A. Bert, causes, measurement, and elimination of fuel-element fission product leakage at NASA Plum Brook Reactor, 14622

Davis, Edwin A., selective control of brush on chaparral watersheds with soil-applied fenuron and picloram, 14283

Davis, Yvonne, relief, 13876

Davis Dam, and power plant, general information, 14831

Day care of children, prelude to school, evaluation of inner-city preschool program, 13778

Deaf, opportunities for the hard of hearing and the deaf, 14847

Deaf, National Conference for Coordinating Rehabilitation and Education Services, see National Conference for Coordinating Rehabilitation and Education Services for the Deaf.

Dealers, FHA property improvement loans, guide, 14388

Death, mortality, vital statistics of U.S., 14812

Debts, tax information on deduction for bad debts, 14417

Debugging, see Checkout.

Decision making, labor statistics for national decision making (address), 14438

Decisions, see names of courts, etc., rendering decisions—also subjects.

Decker, John P., aerodynamic interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers 3 and 6, 14627

Decomposition, vaporization and decomposition kinetics of candidate re-entry black-out suppressants in low-pressure flames, 14567

Deep Freeze Operation, see Antarctic regions.

Deer:

aspen grove use in southwestern coniferous forests, 14281

mule, habitat management, 14865
response to alternate-strip clearcutting of lodge-pole pine and spruce-fir timber in Colorado, 14284

use of Ponderosa pine forest in Arizona before and after timber harvest, 14282

Deering, Louis A., relief, 13904

Defense, see National defense.

Defense Department:

appropriations, 1969, hearings, 13916
candidates in officer training programs, cessation of unauthorized payments of proficiency pay and variable reenlistment bonuses, GAO report, 14306
cataloging and standardization program, semiannual report, 13919

Defense Department—Continued

DoD pamphlets, 13651

manual DSAM series, 14082-84

military standards, 14099-112
national industrial reserve, annual report to Congress, 14080
real and personal property, status report, 14115

school system for overseas dependents, European area, Defense Dept., GAO report, 14323

specifications and standards, index, 14096
appendix, 14097

standardization documents, supply classification, listing, 14094

value engineering, design or manufacture simplification, performed by contractors, opportunities for increased savings by improving management, GAO report, 14321

Defense Documentation Center, Cameron Station, Alexandria, Va. annual historical summaries, 14078-79

Defense Supply Agency, manual DSAM series, 14082-84

Defoliation, estimating, of Douglas-fir and white fir by western budworm, 14287

Degrees (colleges, universities, etc.):
associate degrees and other formal awards below baccalaureate in higher education, 14129

Naval Postgraduate School, Monterey, Calif., abstracts of dissertations, theses, and research papers submitted by candidates for degrees, 14737

Delaware, census of business, 1967, retail trade, area statistics, 13734

Demand, see Supply and demand.

Demography, demographic data, Federal Health Programs Service, annual statistical summary, 14792

Density, gradients near liquid/air interface, 14742

Dental administration, Navy, manual, change, 14739

Dental health, see Teeth.

Dentrifices, self-preparation stannous fluoride prophylactic technique in preventive dentistry, report after 2 years, 14516

Dentistry:

audiovisuals, selected list, 14699
dental administration, Navy manual, change, 14739

preventive, self-preparation stannous fluoride prophylactic technique in, report, 14516

Dependents, see Armed Forces.

Deportation, cases suspended, report, 13869
Deprivation (sensory), see Sensory deprivation.

DePuy, G. W., disposal of time elements from inland desalting plants, review and bibliography, 14407

Desalination, inland plants, disposal of brine effluents, review and bibliography, 14407
see also Sea water.

Desalting of sea water, see Sea water.

Design manual DM series, 14722

Designs (industrial):

Brayton rotating unit on rolling-element bearings, 14578

Detectors:

LiF detectors, use in neutron flux integrator, feasibility study, 13693

silicon electron, tables of response functions, 14673

Detonations, see Nuclear explosions.

Development (economics), see Economic policy.

DHIA, see Dairy herd improvement associations.

Diagenesis, see Geology.

Diagnosis:

diagnostic data, Federal Health Programs Service, annual statistical summary, 14792

- Diagnosis— Continued
laboratory, of tuberculosis in animals, recommended standard procedures, 13540
Dialysis, piezodialysis research, 14405
Diamond, Barbara K., relief, 13894
Diamond, W. Gene, barite, 14522
Diatomite, minerals yearbook chapter, 14526
Dictionaries, navigation, 14730
Diet:
Clinical Center dietetic manual for metabolic kitchen units, 14686
see also Food.
Dietaries, see Food.
Dietetics, see Diet.
Diffraction, X-ray, powder patterns, 14665
Diffusion, dislocation pipe, in silver single crystals, 14745
Digestion, in vitro digestibility of alpine forages in Wyoming, 14288
Digests, see Index digests.
Dimethyl sulfoxide, radioprotection of primates with 2-(1-decylamino) ethanethio-sulfuric acid in, 13628
Diodes, microwave photodiodes, sensitivity as function of bias and geometry, 14754
Diplomatic and consular service, see Foreign Service.
Directories:
Agricultural Research Service, 13583
Christmas tree directory, Oregon and Washington growers, wholesalers, and retailers, 14254
educational information centers, 14131
international mail, 14770
military assistance program address directory, MILSTRIP, 14113-114
private programs for minority business enterprise, 13804
telephone—
Agriculture Department, 13609
Atomic Energy Commission, 13724
urban transportation, research and planning projects, 14394
Disabled, children with learning disabilities act of 1969, hearings, 13924
see also Rehabilitation of the disabled.
Disadvantaged children, see Children.
Disarmament:
antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV) ABM systems, strategic and foreign policy implications, hearings, 14031
arms control, ABM systems, strategic and foreign policy implications, hearings, 14031
Disasters:
Camille, food help, picture story, 13603
educational assistance in major disaster areas, 1968 annual report, 14127-128
emergency health series, 14788
emergency medical supplies, hospital reserve disaster inventory, 14789
floods, South Fork Eel River, Phillipsville to Garberville, 14150
Discrimination, see Race problems.
Discrimination in employment:
equal employment opportunity—
nondiscrimination in private and public employment, guide to Federal law, 13785
Reclamation Bureau, affirmative program of manpower utilization, 14832
Federal employment, toward equal opportunity for all persons, 13796
Diseases, kidney, prevention and control, guidelines for community programs of chronic disease control, 14794
see also names or classes of diseases.
Diseases of plants, saving forests and related wildlife resources from insects and diseases, 13599
Disorders, see Riots.
Displacement, use of small and large displacement data from essentially elastic buckling tests on columns and plates to correlate theory and experiment, 13673
Display systems, tactical information processing displays, implications of BESRL research, 13668
Dissertations, abstracts, Naval Postgraduate School, Monterey, Calif., 14737
Distillation, equipment, continuous counter-current ion exchange, removal of calcium to prevent scaling, errata, 14403
Distortion, flame straightening and its effect on base metal properties, 14854
District courts, District of Columbia, reorganization, hearings, 14023
District of Columbia:
courts, reorganization, hearings, 14023
data tabulations and summaries, 1964 continuous air monitoring projects, National Air Surveillance Projects, 14797
delinquent State taxes, authorize State actions to recover on reciprocal basis, report, 14009
drug abuse in Washington area, hearings, 14022
employees, grant court leave when called as witnesses in certain judicial proceedings on behalf of State and local governments, report, 13907
high-speed rail line, grade crossings, eliminate, hearings, 13939
judges retirement act of 1964, amend survivor annuity provisions, report, 14010
Potomac River estuary movement of solute at low inflow conditions, 14337
property, convey to Washington International School, Inc., report, 13999
synagogue, lease to Jewish Historical Society of Greater Washington, 13865, 13989
trust funds, legal investments, list, 14116
see also Capital of United States.
District of Columbia Committee, House, reports, 13864-865
District of Columbia Committee, Senate:
hearings, 14022-23
reports, 13989, 13999, 14009-10
DMSO, see Dimethyl sulfoxide.
Documentation, documentation and containerization in Inter-American trade (remarks), 14209
DoD, see Defense Department.
Dominican Republic, agricultural commodities, agreement, 14908
Dona Ana County, N. Mex.:
Bear Peak area, geology, 14331
Post Area, White Sands Missile Range, test wells, 14359
Doten, George W., team interpretation procedures, selection of teammates and role assignment, 13664
Doty, Gene C., test wells in Post Area, White Sands Missile Range, Dona Ana County, N. Mex., 14359
Douglas fir, see Fir.
Douglas-fir tussock moth, see Tussock moths.
Downey, C. E., soil survey Montgomery County, Ill., 14877
Draft (military), see Conscription.
Drag (aerodynamics):
aerodynamic interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers 3 and 6, 14627
Drains, scupper drain attachments to vessels in drydock, maritime safety data, 14444
Drawings, scientific and technical, catalog of copyright entries, 14068
Drewes, Werner, woodcuts, catalogue, 14677
Dreyfuss, Carl, Werner Drewes woodcuts, 14677
Drilling, see Rock drilling.

Drugs :
 abuse in Washington area, hearings, 14022
 antidepressant drug studies, psychopharmacology bulletin, 14801
 drug efficacy study, report, errata, 14565
 technical publications, July-Dec. 1968, FDA, 14247
see also Medicine—*also* names of drugs.
 Drydocks, scupper drain attachments to vessels in drydock, maritime safety data, 14444
 DSA, *see* Defense Supply Agency.
 Ducks, hunting, possession, transportation, and/or importation, 1969-70, in United States, etc., Federal regulations governing, 14884
 Ducts :
 magnetospheric duct propagation research using, Alouette-2 topside-sounder observations, 14612
 noise attenuation prediction in acoustically treated ducts for turbofan engines, studies, 14570
 Dug Foo Wong, *see* Wong, Dug Foo.
 Duga, John V., Jr., computer plotting description of ion-molecular collision with long-lived capture complexes, 14645
 Dugout Project, *see* Project Dugout (Plowshare program).
 Dulles International Airport, general information, 14182
 Dunne, Thomas P., address, Sept. 11, 1969, 13802
 Durable goods, *see* Commercial products.
 Durum wheat, *see* Wheat.
 Dynamic stability, *see* Stability of aircraft.
 Dynamics :
 dynamic performance limitations of fast response (150 to 200Hz) electrohydraulic servos, analysis, 14633
 mechanisms with elastic couplings, 14650
 E
 Earnings, *see* Wages.
 Earth :
 manned orbiting missions, biotechnology laboratory, study—
 results, recommendations, and requirements, 14580
 summary of individual experiments, requirements, 14581
 snow on ground, classification outline, 14290
see also Satellites.
 Earth movements, *see* Subsides (earth movements).
 Earth Sciences Laboratory, ESSA technical report, ER-ESL series, 14164
 Earthquakes :
 Alaska, 1964—
 effects of communities (series), 14346
 effects on various communities, 14346
 seismic intensity data used to predict effects in various geologic settings, 14333
 Earthwork and structures :
 desiccated clays, controlling expansion during construction, 14829
 underground emplacement of nuclear explosives, construction techniques and costs, Plowshare program, 13708
 East (Middle East) :
 Near and Middle Eastern series, 14906
 East (Near East) :
 U.S. foreign aid, 1970 proposed program, 14429
 United States policy in crisis, 14906
 East (U.S.) :
 east coast, Loran-C table, pair 887-X, 14733
 East Asia, *see* Asia.
 East St. Louis, Ill., nutrition and human needs, hearings, 14058
 Eastern Europe, *see* Europe.
 Eastern Test Range, investigation of turbulent wind field below 150M altitude, 14582

Eastport, Me. to Montauk Point, N.Y., coastal warning facilities chart, 14964
 Ecology, range, and management, 14278
 Economic Committee, Spanish-United States, *see* Spanish-United States Economic Committee.
 Economic conditions :
 economic analysis of Alaska, subregional, 14199
 economic indicators, Alaska, 14198
 employee compensation, 1966, in private nonfarm economy, 14458
 foreign economic trends and their implications for United States, ET series, 14418-423
 impact of tax-exempt foundations and charitable trusts, 13942
 Ozark gateway district, preliminary economic analysis, 14121
see also names of countries, States, etc.
 Economic cooperation, *see* Foreign aid.
 Economic development :
 districts authorized under provisions of Public works and economic development act of 1965, status, 14117
 minority groups, economic advancement in U.S. (remarks), 14227
 potential development of central Appalachia, preliminary analysis, 13650
 Economic Development Administration :
 building communities with jobs, 14118
 role in industrial and commercial growth (address), 13802
 selected Indian reservation program, 14119
 Economic geology, *see* Geology.
 Economic Joint Committee, committee print, 13848
 Economic Opportunity Office :
 community action program, effectiveness and administration, GAO report—
 Lake County, Ind., 14308
 St. Louis City and St. Louis County, Mo., Human Development Corporation, 14307
 migrant and seasonal farmworkers program in Phoenix, Ariz., under title 3 of economic opportunity act of 1964, effectiveness and administration, GAO report, 14309
 pamphlets, 14120-122
 Economic policy :
 economic opportunity act, continuation of programs, etc., hearings, 13925
 financial developments in 1969, 2d quarter, 14229
 Economic Research Service :
 agricultural economic reports, 14123
 ERS-foreign series, 14125
 ERS series, 14124
 Economics :
 defense-related activity during 1969, 2d quarter (statement), 13809
 economic climate for collective bargaining, facts, 14473
 economic opportunity amendments of 1969, hearings, 13925
 health aspects of aging, toward a full share in abundance, working paper, 14012
 socio-economic projections through 1980, subregions of Northeast Corridor, 14945
 Economy, Alaska, semi-autonomous, aggregate, income model, 14193
 EDA, *see* Economic Development Administration.
 ED&T report, 14259-261
 Education :
 can television really teach? 14130
 children in federally affected areas, 1968 annual report, 14127-128
 educational assistance for gifted and talented children, hearing, 13927
 elementary and secondary education act, handicapped children, selected projects, 14143

INDEX

- Education—Continued
enactments, 90th Congress, 2d session, 14055
information centers, directory, 14131
let's be practical about reading, 14137
minority groups in U.S. (remarks), 14227
new education, promise and performance (address), 14140
nuclear education and research, conference on special topics, 13690
opportunity grant program, 1969-70 allocations of Federal funds, 14052
persons and families, Mar. 1969, selected characteristics, 13763
problems of handicapped in inner city (remarks), 14132
State departments, 1970-71 foreign curriculum consultant program, 14135
see also Curriculum—Elementary education—Secondary education—*also* subjects taught.
- Education and Labor Committee, House hearings, 13924-927
Education Office:
administration of higher education programs in foreign language and area studies, research and training opportunities abroad, 14142
annual report, 1968, on administration of laws granting Federal aids to schools, 14127-128
computer activities support, 14145
Educational institutions, *see* Colleges and universities.
- Educators:
conservation in your life, services to educators, 14256
Mexican-Americans, handbook for educators, 14139
Edwards, R. D., control and reduction of oil mists from mechanical vacuum pumps, 13719
Edwards (U.S.S.):
loan, extension, agreement with Japan, 14913
Effluents, brine, disposal from inland desalting plants, review and bibliography, 14407
Eggspuehler, J. J., study to determine flight profile and mission of certificated private pilot, 13646
Egypt, corrosive ground waters, selection of metal components for long-term development, 14357
Eigenfunctions, tables of eigenvalues of wave equation in prolate spheroidal coordinates, 14743
Eigenvalues, *see* Eigenfunctions.
El Ahwal, Jalileh F. S., relief, 13844, 13980
Elastic strain, *see* Strains and stresses.
Elasticity, mechanisms with elastic couplings, dynamics and stability, 14650
Elastomers, production and sales, 14940
Elderly people, *see* Aged.
Eldorado National Forest:
camping and picnicking, 14252
vehicle control area map and vehicle use rules in area, 14270
Elections:
electoral college reform, amend U.S. constitution, hearings, 14048
President, amend U.S. Constitution, hearings, 13940
President and Vice President, amend U.S. constitution relating to electoral college reform, hearings, 14048
Vice President, amend U.S. Constitution, hearings, 13940
Electoral college, *see* Elections.
Electric apparatus and appliances:
electrical appliance serviceman, suggested guide for training course, 14133
facilities safe practices handbook, Air Force pamphlet, 13615
Electric cables, universal wire stripper, description, 14761
Electric engineering, Navy Dept. design manual, change, 14722
Electric equipment, *see* Electric apparatus and appliances.
Electric generators:
colossal generating units at third power-plant, Grand Coulee Dam, 14828
14.3-kilovolt-ampere modified Lundell alternator for 1200 Hertz Brayton-cycle spacepower system, performance characteristics, 14643
Electric lamps, fluorescent, ballasts, shipments, 1958-68, patterns of industrial growth, 13729
Electric lines, power transmission facilities, improved appearance, 14835
Electric power plants, power transmission facilities, improved appearance, 14835
Electric resistance:
electrical resistivity measurements, Midway and Kure Atolls, 14353
hyperstoichiometric columbium and zirconium carbide materials at elevated temperatures, 14553
Electric stoves, *see* Stoves.
Electric wire and wiring, universal wire stripper, description, 14761
Electrical, *see* headings beginning Electric.
Electricity, national electric rate book, 14214-221
Electrochemistry, molten salts, Gibbs free energies and excess free energies from equilibrium-type cells, 14666
Electrodes, lanthanum fluoride activity and concentration in seawater, 14753
Electrolytes, nonaqueous, properties, 14590
Electromagnetism:
electromagnetic exploration of moon, report of conference, 14596
thermal radiation heat transfer of materials predicted by electromagnetic theory, errata, 14595
Electronic computers:
activities, Education Office support, 14145
computer plotting description of ion-molecule collisions with long lived capture description, 14645
programs—
axial distribution of aerodynamic normal-force characteristics for axisymmetric multistage launch vehicles, errata, 14602
computer-aided filter design manual, 14600
viscous, isothermal compressible flow across sealing dam with small tilt angle, 14621
Electronic data processing systems:
census tabulation available on computer tape series, 13771-772
data handling equipment, electronic equipment modifications handbook, 14188
FORTRAN programs—
calculating velocities in magnified region on blade-to-blade stream surface of turbomachine, errata, 14603
machine computation of group tables of finite groups, 14641
processing of digital data logger STD tapes at Scripps Institution of Oceanography and Bureau of Commercial Fisheries, La Jolla, Calif., 13823
summary tapes—
second count from 1970 census of population and housing, 13771
third count (block) from 1970 census of population and housing, 13772
tagged arithmetic, 14619
Electronic equipment:
maintenance, calibration and repair, measurement data, military standard, 14109
modification handbook, data handling equipment, 14188
Electronics Committee, American Association of State Highway Officials, proceedings, national conference, 14818

- Electronics mechanics, training course, suggested guide, 14134
- Electrons:
- electron transmission and bremsstrahlung production, experimental study, 14572
 - silicon electron detector, tables of response functions, 14673
- Elementary education, elementary and secondary education act, program guides, nos. 44 and 45-A, 14144
- Elgin, A. F., and wife, relief, 13834, 13971
- Elk:
- habitat management, 14864
 - use of—
 - aspen grove in southwestern coniferous forests, 14281
 - Ponderosa pine forest in Arizona before and after timber harvest, 14282
- Elk River power reactor, *see* Reactors (atomic).
- Ellinger, Werner B., classification, class K, subclass KF, law of United States, 14482
- Ellsperman, L. M., asphaltic membranes for water seepage control, 14826
- Embassies, *see* Foreign Service.
- Emergencies, *see* Disasters.
- Emergency services, health services glossary, 14788
- Emitters:
- thermionic converter with—
 - chloride vapor deposited tungsten emitter (110) and nickel collector, characteristics, 14587
 - fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
- Empire quadrangle, Colo., geology, 14349
- Employee suggestions, *see* Suggestion systems.
- Employees, employee compensation, 1966 in private nonfarm economy, 14458
- Employment:
- area trends in employment and unemployment, 14943
 - EDA, building communities with jobs, 14118
 - engineers, scientists, technicians, 14146
 - fellowships and summer stipends for younger humanists, 14678
 - green card aliens during labor disputes, hearings, 13926
 - job development for hard-to-employ, 14441
 - job situation in New York City, facts, 14475-476
 - job trends in New York City, facts, 14477
 - New York City, facts, 14474
 - opportunities, selected Indian reservation program, 14119
 - private nonfarm economy, 1966, employee compensation in, 14458
 - retired military personnel in Federal jobs, questions and answers, 13794
 - returning Peace Corps volunteers, Federal service opportunities, 13791
 - security automated reporting system, ESARS handbook, 14435
 - see also* Discrimination in employment—Government officials and employees—Occupations.
- Employment Security Automated Reporting System, ESARS, management information system for employment security, handbook, 14435
- Emulsions, ultrasonically formed, laboratory oil recovery tests with, 14559
- Encephalitis, reported anthropod-borne encephalitis in horses and other equidae, 13555
- Energy, *see* Radiant energy.
- Engineering, *see* Biomedical engineering—Civil engineering—Electric engineering—Value engineering.
- Engineering geology, northern part of Pueblo, Colo., 14330
- Engineers:
- America's, characteristics, 1960 and 1962 postcensal survey, 13775
 - job market, 14146
 - nuclear defense design professional development courses, 13781
 - Soil Conservation Service, 13596
- Engineers Corps, Army, water resources development in New York, 14154
- Engines (aircraft):
- aircraft engine procurement, potential for savings by reduction, Navy Dept. and Air Force Dept., GAO report, 14324
 - components, vibration and stability, investigation, 14652
 - large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system at angle of attack, subsonic aerodynamic characteristics, 14611
 - lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
 - turbofan, predicting noise attenuation in acoustically treated ducts, studies, 14570
- English and metric systems of measurements, 14671
- English Channel lights and fog signals, list, 14729
- Engraving and Printing Bureau, brief history, 14157
- Enright, Frank J. relief, 13892
- Environment:
- body armor in hot humid environment, studies in unacclimatized men, 14512
 - conditions relating to harmful insects of mainland southeast Asia, 13657
 - health series—
 - radiological health, 14790
 - water supply and pollution control, 14791
 - highways and their environmental considerations, literature references, 14815
 - range environmental management, 14279
 - space environment, simulator, infrared spectral irradiance measurements, errata, 14604
- Environmental Control Administration, training institute, bulletin of courses, 14810
- Environmental Research Institutes, *see* Institutes for Environmental Research.
- Environmental safety, *see* Safety of life.
- Environmental Science Services Administration:
- technical memorandums, 14163
 - technical reports, 14164-171
- Environmental Technical Applications Center, technical notes, 13620
- Enzymes, serum enzyme changes after physical exertion, 14504
- Equal employment opportunity, *see* Discrimination in employment.
- Equations:
- isothermal, compressible flow across rotating sealing dams, 14614
 - wave, in prolate spheroidal coordinates, tables of eigenvalues, 14743
- Equations of motion:
- computer plotting description of ion-molecule collisions with long-lived capture complexes, 14645
 - helicopter rotor in forward flight, method for analyzing aeroelastic stability, 14568
- Equilibrium, chemical equilibrium of ablation materials, including condensed species, 14636
- Equine encephalitis, *see* Encephalitis.
- Equipment development ED&T report, 14259-261
- Ericsson, Lars E., aerodynamic effects of bulbous bases, 14569
- ERL, *see* ESSA Research Laboratories.

INDEX

- Error analysis:
 controlled failure-mode tests, some liquid oxygen/liquid hydrogen explosive effects, 14629
 manipulation errors in finite element analysis of structures, 11573
 ERS, *see* Economic Research Service.
 ESARS, *see* Employment Security Automated Reporting System.
 Escudillo Creek, San Antonio River basin, Tex., hydrologic data, compilation, 14339
 ESEA, *see* Elementary education—Secondary education.
 Eskimos, graphic arts of Alaskan Eskimo, 14402
 ESSA Research Laboratories:
 ESSA technical reports—
 ERL-ESL series, 14164
 ERL-ITS series, 14165-167
 ERL-POL series, 14168-169
 ERL-SOL series, 14170
 scientific and technical publications—
 list, 14177
 management information, 14174-175
 Estuaries:
 clean water for nation's estuaries proceedings, public meeting on water quality management for estuaries, 14239
 Potomac River at Washington, D.C., movement of solute at low inflow conditions, 14337
 Ethies, acquisition and development of values, perspective on research, conference report, 14682
 Etzel, J. G., development of weld quality monitor, 14609
 Eureka to Point Conception, Calif., coastal warning facilities chart, 14965
 Europe:
 Eastern, social science research, special papers available, 14904
 school system for overseas dependents, Defense Dept., GAO report, 14323
 Western, rising construction costs and anti-inflation policies, report, 14464
 Evans, Melvin H., nomination, hearing, 14044
 Evaristo, Maria da C., relief, 13966
 Everglades National Park additional lands, acquisition, report, 13990
 Examinations, *see* Civil service—also types or subjects of examinations.
 Excise taxes:
 information on 1969 excise taxes, 14415
 internal revenue bulletin, cumulative, index-digest supplement system, 14413
 Exercise, serum enzyme changes after physical exertion, 14504
 Exhibitions:
 international expositions held in United States, Federal Government recognition and participation, hearings, 13929
 Werner Crewes woodcuts, catalogue, 14677
 see also subjects.
 Expansion (solids):
 dissociated clays during construction, controlling, 14829
 Expansion (thermal):
 thermal ram, new concept for load application, 13672
 Expenditures, rural income and expenditure survey in Vietnam, initial report, 14425
 Experiments and experimentation:
 processing and display, using digitized ATS-1 spin scan camera data, 14171
 summary of individual requirements, study for biotechnology laboratory for manned earth orbiting missions, 14581
 Explorations, *see* Outer space.
 Explosions:
 shipyard hazards, maritime safety data, 14445
 some liquid oxygen liquid hydrogen explosive effects in controlled failure-mode tests, 14629
 Explosives, *see* Atomic blastings.
 Exports, *see* names or classes of articles exported.
 Expositions, *see* Exhibitions.
 Exposure, structural ferrous metals, 16 years' exposure to sea and fresh water, in tropical environments, 14744
 Eyeglasses, *see* Spectacles.
- ## F
- FAA, *see* Federal Aviation Administration.
 Failure analysis, *see* Error analysis.
 Failure criteria for filamentary composites, 14618
 Fairs, United States trade shows and exhibitions, 1970, list, 14959
 Fallout, *see* Radioactivity.
 Falvey, H. T., spectral analysis, prototype study, 14840
 Families:
 average family income up 8 percent in 1968, 13769
 characteristics of persons and families, Mar. 1969, income, poverty, etc., 13763
 food for family with young children, 13587
 low-income—
 nation's program to help lower income families become homeowners (address), 14382
 nonprofit sponsors of housing, general information, 14389
 rural families, economic opportunity loan program under Farmers Home Administration, administration and effectiveness, GAO report, 14304
 see also Households.
 family planning, *see* Birth control.
 Fans, cruise, large-scale 1.075-pressure-ratio tip-turbine propulsion system, subsonic performance characteristics, 14610
 Farberow, Norman L., bibliography on suicide and suicide prevention, 14782
 Farina, Sabina, R., relief, 13871
 Farm labor, migrant and seasonal farmworkers program in Phoenix, Ariz., effectiveness and administration, GAO report, 14309
 Farm workers, *see* Farm labor.
 Farmers, low-income, FHA insured operating loans, provide, hearing, 14014
 Farmers' bulletins, 13584-586
 Farmers Home Administration:
 consolidated act of 1961, amend, hearing, 13911, 14014
 economic opportunity loan program for low-income rural families, administration and effectiveness, GAO report, 14304
 insured operating loans to low-income farmers and ranchers, authorize, hearings, 14014
 programs strengthen family farms and rural communities and reduce poverty, 13600
 Farms:
 beef slaughtering, cutting, and processing, 13585
 excess deductions account for farm losses, tax reform press releases announcing tentative decisions, 13945
 Farmers Home Administration strengthens family farms, 13600
 real estate market developments, 14126
 Fasteners, *see* Fastenings.
 Fastenings, threaded fasteners, Federal item identification guide, change, 14093
 Fatigue of materials, *see* Strains and stresses.
 Fatta, Francesca A., *see* Millonzi, Francesca A.
 Faucets, recreation sites, Equip tips, 14260
 Fauna:
 bottom-dwelling macrofauna, role in water pollution investigations, 14791
 North American, 14883
 fbEs, *see* Ionosphere.

- FDA, *see* Food and Drug Administration.
- Feder, Ernest, analytical and experimental studies for predicting noise attenuation in acoustically treated ducts for turbofan engines, 14570
- Federal agencies, *see* Government offices.
- Federal aid, *see* Grants-in-aid.
- Federal Aviation Administration:
air traffic, activity, report, 14183
Federal aviation regulations, 14184-186
handbook series, 14188
Systems Research and Development Service scientific and technical reports, list, 14938
- Federal credit unions, development, 14191
- Federal employees, *see* Government officials and employees.
- Federal employment, *see* Employment.
- Federal Health Programs Service, annual statistical summary, 14792
- Federal Home Loan Bank Board:
annual report, 14203
financial statement, 1968, GAO report, 14316
member, nomination of Thomas H. Clarke, hearing, 14018
- Federal home loan banks, financial statements, 1969, GAO examination, 14317
- Federal Housing Administration:
financial statements, GAO examination, 14318
loans for property improvement, dealer and contractor guide, 14388
manual, mortgagees handbook, home mortgage programs, revisions, 14207
mortgage insurance, manufactured housing, technically suitable, 14205
- Federal item identification guides:
capacitors, fixed, 14085
improvement program procedures manual, 14082
junction boxes, 14086
keys and pins, change, 14087
lens, lighting, 14088
lift trucks, fork, platform, and pallet, 14089
medicaments, 14090
nuts, 14091
ranges, electric, gas, and oil burning, change, 14092
threaded fasteners, change, 14093
- Federal Maritime Commission:
regulatory functions (remarks), 14210
SP series, 14208-211
- Federal Power Commission:
publications, list, 14222
reports, opinions, decisions, and orders, bound volume, errata, 14213
- Federal regulations, *see* subject.
- Federal reserve member banks:
reserves, regulations, 14230
supplement, 14231
- Federal Reserve System Board of Governors, regulation series, 14230-233
- Federal Savings and Loan Insurance Corporation, financial statement, 14202
- Federal service, *see* Civil service.
- Federal specifications, *see* Government supplies.
- Federal standards, 14236-237
- Federal standards policy program, address, 13805
- Federal-State-local relations, *see* Intergovernmental relations.
- Federal Trade Commission, consumer bulletins, 14238
- Fees:
license fees under perishable agricultural commodities act of 1930, increase, hearing, 13912
witnesses before House of Representatives, increase, report, 13908
- Fellowships:
senior fellowships, 1970-71, announcement poster, 14697
summer stipends for younger humanists, 14678
- Fenuron, soil-applied, for selective control of brush on chaparral watersheds, 14283
- Ferber, Ellen, it's Y.O.F., 14136
- Ferman, Louis, job development for hard-to-employ, 14441
- Ferrokinetics, modified 59 Fe ferrokinetic procedure, 13632
- Ferromagnetism, *see* Magnetism.
- Fertility, persons and families, Mar. 1969, selected characteristics, 13763
- Fetus, and new born, hemolytic disease due to RII isoimmunization, 13777
- FHA, *see* Farmers Home Administration—Federal Housing Administration.
- Fiberglass, *see* Glass fibers.
- Fibers, surface chemistry of plastics reinforced by strong fibers, 14775
- Fichman, Philip J., relief, 13883
- FIG, *see* Federal item identification guides.
- Filamentary materials, filamentary composites, failure criteria, 14618
- Film slides, use of slides, etc. of paper money, postage and revenue stamps, and other obligations and securities of United States and foreign governments, 14851
- Films (coatings):
polyethylene, polypropylene, and poly(ethylene terephthalate), molecular orientation and mechanical anisotropy, 14628
- Films (photography), *see* Motion pictures.
- Filters and filtration, computer-aided filter design manual, 14600
- Finance:
accounting and finance manual, DSA, change, 14084
financial developments in 1969, 2d quarter, 14229
financial statements—
Federal Home Loan Bank Board, GAO examination, 14316
Federal home loan banks, GAO examination, 14317
Federal Housing Administration, GAO examination, 14318
Federal Savings and Loan Insurance Corporation, 14202
International Development Agency, loan program financial activities, status, June 30, 1968, GAO review, 14305
toward a new fiscal federalism (remarks), 14953
see also International finance.
- Finance Committee, Senate:
committee prints, 14024, 14026-30
hearing, 14025
report, 13997
- Financial statements, *see* Finance.
- Fine, M. M., metallization of iron ores with solid reductants, 14554
- Fir:
Douglas—
estimating defoliation by western budworm, 14287
intensive culture, 14267
timber, response of deer to alternate-strip clear-cutting of lodgepole pine and spruce-fir timber in Colorado, 14284
White, estimating defoliation by western budworm, 14287
- Fire fighting, *see* Fires.
- Fire retardants, *see* Fires.
- Firearms, revenue rulings, etc., internal revenue bulletin, cumulative index-digest supplement system, supp., 14414.
- Fire-resistant material, glove evaluation for gloveboxes, fire safety application, 13720

INDEX

- Flies :
 firefighting exercises, manual, 14740
 glovebox fire safety application—
 fire resistant glove materials, evaluation, 13720
 mechanical vacuum pumps, control and reduction of oil mists, 13719
 retardant paint system for nuclear submarine interiors, 14749
 shipyard hazards, maritime safety data, 14445
 Fiscal policy, *see* Finance.
 Fish and fisheries :
 BCF acoustical workshop, proceedings, 13821
 Chesapeake fisheries, annual summary, 13813
 current fishery statistics, CFS series 13811-816
 fish and fishing around TVA steam plants, 14942
 fish passage report, Bonneville, The Dalles, John Day, McNary, and Ice Harbor Dams, 14148
 fishery marketing development series, 13820
 fishery publication index, 13818
 Great Lakes, 1967 annual summary, 13815
 Maine landings, 13814
 middle Atlantic Ocean western region, agreement with Poland, 14915
 South Atlantic fisheries, 1967 annual summary, 13816
 special scientific reports, fisheries series, 13822-823
 sport fishery research, 1968 progress, 14885
 Virginia landings, 13812
see also names or classes of fish.
 Fish and Wildlife Service :
 fishery marketing development series, 13820
 fishery publication index, 1955-64, by series, authors, and subjects, 13818
 Fish meal, production, annual summary, 13811
 Fish oil, production, annual summary, 13811
 Fisheries, *see* Fish and fisheries.
 Fishery marketing development series, 13820
 Fishing, *see* Fish and fisheries.
 Fission products, fuel element leakage at NASA Plum Brook Reactor, causes, measurements, and elimination, 14622
 Flame straightening and its effect on base metal properties, 14854
 Flames, low-pressure, candidate re-entry blackout suppressants in vaporization and decomposition kinetics, 14567
 Flaming Gorge National Recreation area, general information, 14262
 Flaps (aircraft) :
 external-flow jet-augmented flaps on jet transport model, static and dynamic stability derivatives, 14646
 STOL aircraft configuration equipped with external-flow jet flap, wind-tunnel investigation, 14617
 Flashbulb spotting round for testing proximity fuzes, 14763
 Flathead Indians, judgment funds, disposition report, 14003
 Flatley, Thomas W., attitude stability of class of partially flexible spinning satellites, 14606
 Fleet Marine Force manual FMFM series, 14484
 Flies, Nearctic sawflies, Selandriinae, adults (Hymenoptera : Tenthredinidae), 13608
 Flight :
 helicopter rotor in forward flight, method for analyzing aeroelastic stability, 14568
 profile and mission of certificated private pilot, study to determine, 13646
 rules, Federal aviation regulations, 14186
 Flight crews :
 aircraft attitudes and job satisfaction, trends, 2 year study, 13630
 aircrew station geometry for military aircraft, military standard, 14107
 Flight officers, naval flight officer student prediction system, expansion, 14499
 Flight training, *see* Flight.
 Floods, flood plain information, South Fork Eel River, Phillipsville to Garberville, 14150
 Floors and flooring, failure of floor tile systems, investigation, 14204
 Florida :
 census of business, 1967, retail trade, area statistics, 13735
 water resources data, 14362-365
 Flow :
 acoustic velocity meter for measurement of net outflow from Sacramento, San Joaquin delta in Calif., feasibility study of use, 14372
 airflow distribution for annular gas turbine combustors, analysis, 14631
 external-flow jet-augmented flaps on jet transport model, static and dynamic stability derivatives, 14646
 field measurements downstream of two protuberances on flat plate submerged turbulent boundary layer at Mach 2.49 and 4.44, 14608
 isothermal, compressible across rotating sealing dam, analysis, 14614
 magnetoaerodynamic, around blunt bodies, experimental investigation, 14574
 mechanics, from stratified reservoirs in interest of water quality, 14156
 viscous, isothermal compressible, across sealing dam with small tilt angle, computer program, 14621
 Flow of water, *see* Hydraulics.
 Flukes, *see also* Liver flukes.
 Fluorescent lamps, *see* Electric lamps.
 Fluorides :
 activity and concentration in seawater using lanthanum fluoride electrode, measurement, 14753
 thermionic converter with fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
 Fluorocarbons, in epoxy plastics, 14747
 Flux (neutron), *see* Neutrons.
 FMC SP series, 14208-211
 Fog signals, Naval Oceanographic Office, list, British Isles, etc., 14729
 Food :
 Camille, food help, picture story, 19603
 dietary levels of households in United States, 13592
 food and your weight, 13590
 for family with young children, 13587
 household consumption survey, 1965-66, reports, 13592
 human needs, national nutrition survey, hearings, 14058
 new products from industry, how authorized for use by Armed Forces, 14095
 pantothenic acid, vitamin B6 and vitamin B12, 13591
 prices and living costs, background material, 14471
 technical publications, July-Dec. 1968, FDA, 14247
see also Food poisoning—School lunches.
 Food and Drug Administration, selected technical publications, 14247
 Food poisoning, foodborne outbreaks, National Communicable Disease Center, 1968, annual summary, 14798
 Football, 6-cent football commemorative postage stamp (poster), 14767
 Forage plants, alpine forages in Wyoming, in vitro digestibility, 14288

- Foraminifera, and stratigraphy of upper part of Pierre shale and lower part of Fox Hills sandstone, north-central South Dakota, 14348
- Forbes, Jack D., Mexican-Americans, handbook for educators, 14139
- Ford's Theatre, general information, 14703
- Foreign Affairs Committee, House, hearings, 13928-929
- Foreign Affairs Research Documentation Center, special papers available, 14904
- Foreign agents, registration act, administration, report, 14434
- Foreign aid:
economic cooperation, agreement with Spain, 14909
foreign assistance act of 1961, amend, hearings, 13928
foreign assistance act of 1969, hearings, 13928
technical cooperation, agreement with Afghanistan, 14920
U.S., in east Asia, 14428
see also names of countries.
- Foreign commerce, *see* Commerce.
- Foreign countries:
background notes, 14890-14903
developing countries, manpower surveys and reports, 1958-68, summaries, 14459
foreign economic trends and their implications for United States, ET series, 14413-423
living quarters allowances, State Department, 14480
ocean-going foreign flag merchant type ships of 1,000 tons and over owned by United States parent companies, 14489-490
restrict transfers of capital to foreign countries by substantial investors in U.S., etc., 14432
scientists and technicians from other countries, intern-training opportunities provided by U.S. Geological Survey, 14341
see also Foreign agents.
- Foreign currencies, *see* Paper money.
- Foreign language, *see* Language and languages.
- Foreign policy, *see* International relations.
- Foreign products available for production in U.S. under licensee agreements, 14424
- Foreign regulations affecting U.S. textile/apparel exports, 13726
- Foreign relations, *see* International relations.
- Foreign Relations Committee, Senate, hearings, 14031
- Foreign Service:
diplomatic and consular instructions, 1791-1801, State Dept. pamphlet to accompany microcopy, 14655
embassy sites, agreement with Union of Soviet Socialist Republics, 14907
- Foreign trade, *see* Commerce.
- Foreigners, *see* Aliens.
- Forest conservation, *see* Forests and forestry.
- Forest fires, 1968 wildfire statistics, 14298
- Forest management, Oregon Cascades, management direction for wilderness and primary recreation zones of national forests, 14269
- Forest pest leaflets, 14263
- Forest planting, *see* Forests and forestry.
- Forest Products Laboratory, annual report of research, 14249
- Forest Service:
equipment development ED&T report, 14259-261
Intermountain region yearbook, national forests in profile, 14273
research notes, 14281-288
research papers, 14289-291
- Forest thinning, thinning program for Malheur National Forest, 14296
- Forestry, *see* Forests and forestry.
- Forests and forestry:
conservation in your life, services to educators, 14256
research notes, 14281-288
research papers, 14289-291
saving forests and related wildlife resources from insects and diseases, 13599
southwestern coniferous forests, aspen grove use by deer, elk, and cattle, 14281
starting a community forest, 14293
suggestions for integrating forestry in modern curriculum, 14294
see also National forests.
- Fork lift trucks, *see* Motortrucks.
- Forms, *see* names of departments, etc., issuing or using forms.
- Forstall, John R., manikin measurements of noise attenuation provided by flight helmets, 14503
- Fort Berthold Reservation, lands, hold in trust, report, 14006
- Fort McHenry National Monument and Historic Shrine, incidents relative to writing of Star-Spangled Banner, 14704
- Fort Point National Historic Site, proposal, 14701
- FORTTRAN, *see* Electronic data processing system.
- Foshag, W. F., lifting horizontal-axis rotating-wing aeronautical systems (HAR-WAS), review and evaluation, 13677
- Foundation (charitable and educational):
foundations and nonprofit research institutes, 1966, 1969, support of medical research and education, 14695
tax-exempt foundations and charitable trusts, their impact on our economy, 13942
see also Charitable institutions.
- Foundries, iron and steel, industry wage survey, 14457
- 4-H clubs, reports to nation, 14192
- Fowkes, Richard S., materials handling research, hydraulic transportation of coarse solids, 14549
- Foxes, red fox habitat needs, etc., 14870
- FPL, *see* Forest Products Laboratory.
- Fraas, Foster, magnetic separation of minerals of low susceptibility and small particle size, 14555
- Fracture of metals:
fatigue-crack growth in 7075-T6 and 2024-T3 aluminum alloy specimens, effect of stress ratio, 14635
thermal fatigue cracking and oxidation of nickel- and cobalt-base alloys in high velocity gas stream, 14624
- France:
air transport services, agreement, 14928
plant quarantine import requirements, 13547
- Franchises (business):
franchise company data, equal opportunity in business, 13727
- Fraud, mail, laws protecting consumers, investors, businessmen, medical patients, students, 14771
- Frear, Samuel T., Willamette 1968, a national forest and national wilderness preservation system, 1968 annual report, 14299
- Freeman, Delma C., Jr., static and dynamic stability derivatives of model of a jet transport equipped with external-flow jet-augmented flaps, 14646
- Freeways, *see* Roads and highways.
- Freezing, home freezing of fruits and vegetables, 13589
- French Guiana, plant quarantine import requirements, 13548
- Friction, reverted rubber friction, laboratory experiments, 14577

INDEX

Friedman, Robert, experimental measurements of expanding storable-propellant products simulated by combustion of gaseous reactants, 14642

Fruit:
home canning, 13588
home freezing, 13589

Fry, Emmett B., use of six-degrees-of-freedom motion simulator for VTOL hovering tasks, 14630

Fuel elements, *see* Reactor fuel elements.

Fuentes, John F., and wife, relief, 13901

Funesti, Robert J., BNDI bulletin, 14564

Fungicides, act. administration deficiencies, hearings, 13930

Fuses (ignition device):
flashbulb spotting round for testing proximity fuzes, 14763

Future NASA space programs, 14011

Fuzes, *see* Fuses (ignition device).

G

Gages, vacuum gage calibration from 10^{-8} to 10 torr, volume-ratio system, evaluation, 14644
see also Strain gages.

Gaging stations:
northwestern California stream-gaging stations, variations in low-water stream-bed elevators, 14373
water load of uranium, radium, and gross beta activity at selected stations, 14371

Gair, Jacob E., iron resources in Irving Formation, 14329

Gallagher, Joseph J., peat, 14547

Gallatin County, Ill., soil survey report, 14874

Gallinules, hunting, possession, transportation, and/or importation, 1969-70, in United States, etc., Federal regulations governing, 14884

Gallop, Renee L., job market for engineers, scientists, technicians, 14146

Gamatero, Delilah, A., relief, 13870

Game and game birds:
big-game habitat, 14250
migratory birds, 1969-70 in United States, etc., Federal regulations governing hunting, possession, transportation, and/or importation, 14884

Game birds, *see* Game and game birds.

Gamma rays:
gamma probe calibration tests, 14833
transport through slab shields, experimental and theoretical studies, 13692

GAO, *see* General Accounting Office.

Gardens, home and garden bulletins, 13587-590

Gary, Ind., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14310

Gas:
Alaska-Northwest Canada, economic activities comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
high velocity stream, nickel-and cobalt-base alloys in, oxidation and thermal fatigue cracking, 14624
injection into lithosphere at National Reactor Testing Station, Idaho Falls, Idaho, 13696
residual analysis during vacuum melting, mass spectrometry, 14556

Gas dynamics, *see* Aerodynamics.

Gas stoves, *see* Stoves.

Gas turbines, *see* Turbines.

Gaseous-hydrogen pressurant requirements for discharge of liquid hydrogen from 3.96-meter-(13-ft-) diameter spherical tank, 14632

Gases:
compressed gas handbook, errata, 14599
gaseous reactants, experimental measurements of expanding storable-propellant products simulated by combustion, 14642
hazards trainer, maritime safety data, 14443

Gazeteers, *see* Geographical names

Geese, hunting, possession, transportation, and/or importation, 1969-70 in United States, etc., Federal regulations governing, 14884

Genealogy, records in National Archives, 14654

General Accounting Office:
annual report—
departmental edition, 14301
document edition, 13850
appropriations, 1970, legislative hearings, 13917
policy and procedures manual for guidance of Federal agencies, 14230
publications, list, 14303

General Services Administration, building operational review guide, handbook, 14776

Generators, *see* names or types of generators.

Geochemistry, geochemistry of water (series), 14371

Geographic Names Board, gazeteers, 14326-327

Geographical names:
gazeteers, 14326-327
Mozambique, standard place names, 14327
Spanish Sahara, standard place names, 14326

Geological Survey:
bulletins, 14328-335
California well data and water levels references, 14356
circulars, 14337
intern-training opportunities provided for scientists and technicians from other countries, 14341
map-pricing practices, opportunity to increase revenues through changes, GAO report, 14322
professional papers, 14345-353
research 1969, chap. C, 14352
tracer study, Amargosa Desert, Nye County, Nev., exploratory drilling, tracer well construction and testing, and preliminary findings, 14360
water supply papers, 14371-377

Geology:
Bear Peak area, Dona Ana County, N. Mex., 14331
contributions to economic geology (series), 14332, 14335
diagenesis of tuffs in Barstow formation, Mud Hills, San Bernardino County, Calif., 14351
Empire quadrangle, Grand, Gilpin, and Clear Creek Counties, Colo., 14349
general and engineering, of northern part of Pueblo, Colo., 14330
geologic problems, graphical solutions, 14880
geologic story of Mount Rainier, 14334
Geological Survey research 1969, chap. C, 14352
Midway area, Hawaiian Islands (series), 14353
seismic intensity data used to predict effects of earthquakes and underground nuclear explosions in various geologic settings, 14333
see also Cenozoic era.

Geomagnetic field, induction loop antennas for variation measurements, 14164

Geometry, aircrew station geometry for military aircraft, military standard, 14107

Georgetown University, D.C., Students for a Democratic Society, activities, investigation, hearings, 13933

Georgia :

- Agricultural Stabilization and Conservation Service, activity summary, congressional districts, 13561
- climate, 14159
- uranium reconnaissance, preliminary, 13712

Germany :

- German air force, 1919-39
- command and leadership, 13637
- development, 13636

Germicides, *see* Antiseptics.

Gerontology Research Center, general information, 14688

Ghana, guide to official publications, 1872-1968, 14482

Gianutsos, Peter E., relief, 13903

Gibson, A. E. :

- remarks,—
- Sept. 10, 1969, 14487
- Sept. 22, 1969, 14488

Gibson, Sharon K., franchise company data, equal opportunity in business, 13727

Gifford Pinchot National Forest, Mt. St. Helens-Spirit Lake area, general information, 14271

Gifted children, *see* Children.

Gila River Indian Reservation, Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14311

Gill, Kenneth A., Jr., cryotherapy in treatment of snake envenomation, 14507

Gilpin County, Colo., Empire quadrangle, geology, 14349

Girl Scouts of United States of America, annual report, 13857

Girls, expanding opportunities, their special counseling needs, 14969

Glacial period, iron resources in Irving Formation, 14329

Glacier Bay National Monument, general information, 14702

Glacier Peak, North Cascades, Wash., batholiths and volcanoes, intrusion and eruption of late Cenozoic magmas, 14347

Glaser, Rudolf F., longitudinal mass-spring modeling of launch vehicles, 14620

Glass-fabric-polyester laminates, *see* Laminated materials.

Glass fibers, reinforced plastic laminates, capacitive measurement system for non-destructive testing, 13671

Glasses, *see* Spectacles.

Glossaries, emergency health services, 14788

Glossbrenner, Guy F., Commerce Department publications, catalog and index, 1968 supplement, 13810

Glove boxes :

- glovebox fire safety application—
- fire resistant glove materials, evaluation, 13720
- mechanical vacuum pumps, control and reduction of oil mists, 13719

Goddard Space Flight Center, significant accomplishments in science, 1968, proceedings of symposium, 14598

Goggles, *see* Spectacles.

Gold :

- Cripple Creek district, Colo., distribution, 14350

- investigations in Precambrian clastic and pelitic rocks, southwestern Colorado and northern New Mexico, 14332

Goldman, K., performance evaluation of heat-exchangers for sodium-cooled reactors, 13721

Goldston, Stephen E., mental health considerations in public health, 14690

Good housekeeping for successful safety program, 14446

Goshen Valley, selected hydrologic data, 14361

Gott, Garland B., distribution of gold and other metals in Cripple Creek district, Colo., 14350

Gould, Alan E., economic climate for collective bargaining, facts, 14173

Gouthmann, Michel M., relief, 13977

Government :

- Alaska recreation and government policies, 14196

- local government, planning and administrative personnel, pilot study, 14461

- United States foreign credits, 14949

Government contracts, Interior Department, research and development guide, 14401

Government life insurance, *see* Life Insurance.

Government offices :

- Government organization manual, 14224

- policies and procedures, General Accounting Office guidance manual, 14230

- realigning regional boundaries of certain Federal agencies, hearing, 13931

Government officials and employees :

- court leave for employees of United States and District of Columbia, correct inequities report, 13907

- pay comparability system act of 1969, summary and text of bill as introduced 13937

- salary and retirement annuity increases, 13938

- toward equal opportunity in Federal employment, 13796

Government Operations Committee, House, hearings, 13930-932

Government Operations Committee, Senate: committee prints, 14035, 14037

- hearings, 14032-034, 14036, 14038

Government organization manual, 14224

Government Printing Office, appropriations, 1970, legislative, hearings, 13917

Government Procurement Commission, establish, hearing, 14033

Government publications classified list, 14777

- see also* names of departments, etc., issuing publications.

Government reorganization plans :

- Post Office Department, proposals, hearings, 13935

- realigning regional boundaries of certain Federal agencies, hearing, 13931

Government specifications, *see* Government supplies.

Government supplies :

- Federal item identification guides improvement program procedures manual, change, 14082

- Federal specifications, 14235

- Federal specifications and standards, guide, 14325

- Federal standards, 14236-237

- overseas U.S. agencies, effectiveness in meeting supply requirements, GAO report, 14314

Grade crossings, *see* Railroad crossings.

Gradients (mathematics) :

- density gradients near liquid/air interface, 14742

Grading and marking (students) :

- course grades for 2 naval air training schools, optimal weighting, 14500

Grand Banks, Newfoundland region, 1967, oceanography, 13801

Grand Canyon National Park, North Rim, general information, 14713

Grand Coulee Dam, colossal generating units at third powerplant, 14288

Grand County, Colo., Empire quadrangle, geology, 14349

Granger, M. L., river highway for trade, the Savannah, 14153

Grants-in-aid :

- airport/airways development program, hearings, 14020

- airports, Federal aviation regulations, change, 14185

- child nutrition and school food assistance, hearings, 14058

INDEX

- Grants-in-aid—Continued
communicable disease control, authorization, hearing, 14054
education, gifted and talented children, hearing, 13927
Federal aid—
and highway safety programs, hearings, 13939
education of children in federally affected areas, 1968 annual report, 14127-128
higher education programs in foreign language and area studies, research and training opportunities abroad, 14142
hospital and medical facilities construction and modernization amendments of 1969, hearings, 14056
HUD, nonmetropolitan district planning assistance, 14390
Interior Department, research and development, guide, 14401
manpower research institutional program, first three years, 14439
medical library assistance act for 1965, extend, hearing, 14057
student assistance programs, 1969-70 allocations of Federal funds for education purposes, 14052
Graphic arts, *see* Art.
Graphical solutions of geologic problems, 14880
Graphite, minerals yearbook chapter, 14527
Grasses, grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
Grasshoppers, survey, species field guide, 13541
Gravitation, natural frequency of liquids in annular cylinders under low gravitational conditions, 14648
Gravity, measurements and standards laboratory, 14675
Grazing:
grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
management systems and some pertinent literature 1895-1966, discussion, 14257
Great Britain:
lights and fog signals, list, 14729
United Kingdom, projected level of demand, supply, and imports of agricultural products, 1970, 1975, and 1980, summary, 14125
Great Lakes, fisheries, annual summary, 13815
Great Lakes Fishery Laboratory, Ann Arbor, Mich., general information, 13819
Green, John N., relief, 13893
Greene, James W., relationship of naval aviator's speech discrimination test to pure tone audiogram, 14498
Greenfield, Sidney H., hail resistance of roofing products, 14662
Greenlee County, Ariz., mineral resources of Blue Range primitive area, 14328
Greenville, S.C., area wage survey, 14453
Grosch, C. B., method of deriving orbital perturbing parameters from onboard optical measurements of ejected probe or natural satellite, 14584
Ground, *see* Earth—Land.
Ground support equipment, functional classification categories, military standard, 14103
Ground water, *see* Water.
Ground waves, *see* Radio waves.
Grout, Jarrell C., general computer program for solving nonlinear regression problems, 14531
GSA, *see* General Services Administration.
Guadeloupe, plant quarantine import requirements, 13549
Guam:
census of business, 1967, manufactures, and mineral industries, 13755
Governor, nomination of Carlos G. Camacho, hearing, 14044
Guaymas, Mexico, despatches from U.S. consuls, 1832-96, pamphlet to accompany microcopy, 14660
Guernsey cattle, *see* Cattle.
Guide to specifications, and standards of Federal government, 14325
Guido, Pedro L., relief, 13896
Guinea, background notes, 14898
Gulf of Alaska, *see* Alaska, Gulf of.
Gulf of Mexico, *see* Mexico, Gulf of.
Gunderloy, Frank C., Jr., dilute solution reactions of nitrate ion as applied to water reclamation, 14245
Gussow, Sidney, computer-aided filter design manuals, 14600
Gyroscopes, strapdown, for dynamic environment, design, interim scientific report, 14575
H
Habitat:
management for—
elk, 14864
mule deer, 14865
Hafnium, minerals yearbook chapter, 14562
Hafnium oxide, stabilized with calcia, magnesia, and yttria, effects of cyclic heating and thermal shock, 14607
Hail, resistance of roofing products, 14662
Hair, J. L., construction techniques and costs for underground emplacement of nuclear explosives, 13708
Halibut fishery, 1888-1966, eastern Pacific, 13820
Hallam power reactor, *see* reactors (atomic).
Hamilton, Horace E., radioprotection of primates with 2-(1-decylamino)ethanethiosulfuric acid in dimethyl sulfoxide, 13628
Handbooks, *see* names of departments, etc. issuing handbooks—*also* subjects.
Handicapped:
children, selected projects under P.L. 89-313, and title 6-A, ESEA, 14143
education problems in inner city (remarks), 14132
opportunities for the hard of hearing and the deaf, 14847
see also Disabled.
Hanish, S., tables of eigenvalues of wave equation in prolate spheroidal coordinates, 14743
Hanle, William O., relief, 13888
Hannold, Thomas I., flashbulb spotting round for testing proximity fuzes, 14763
Harbors, *see* names of harbors, or places where located.
Hard-of-hearing, *see* Deaf.
Harlee, John, remarks, Aug. 16, 1969, 14208
Harris, Daniel, staff study of campus riots and disorders, Oct. 1967-May 1969, 14037
Harry Diamond Laboratories, HDL technical disclosure bulletin, 14761
Havens, Richard, chemical stabilization of uranium tailings at Tuba City, Ariz., 14552
Hawaii:
geology of Midway area (series), 14353
warning facilities chart, 14967
Hay, George C., experiments with icephobic surfaces, 13644
Hazardous substances:
shipment, study of uniform reporting system for all modes of transportation in reporting incidents and accidents, 14721
symbols for packages and containers for hazardous industrial chemicals and materials, military standard, 14108
transportation of dangerous articles, etc., Federal aviation regulations, 14186
HDL, *see* Harry Diamond Laboratories.

Health:

- aged, health aspects of economics of aging, working paper, 14012
- arthropods, reptiles, birds and mammals of public health significance, pictorial keys, 14799
- coal miners, improve working conditions, hearings, 14053
- community health—
dental health in community care programs, smallfry smiles, guide for teaching, 14696
- projects, approved, classification by broad areas of activity, 14783
- emergency health series, 14788
- emergency health services, glossary, 14788
- environmental health series—
radiological health, 14790
- water supply and pollution control, 14791
- Health Examination Survey plan and operation for U.S. youths 12-17 years of age, 14811
- professions, scholarship program, career information, 14689
- public, mental health considerations, 14690
- Public Health Service act, amend, hearings, 14056
- sector, changing patterns of costs and structure (address), 14462
- statistics, programs and collection procedures, 14811
- vital and health statistics series, PHS publication 1000, current listing, 14785
see also Medical care.
- Health and Safety Laboratory:
AEC fallout program, quarterly summary report, 13694
- appendix, 13695
- Health centers, Public Health Service Indian and Alaska native hospitals, contract hospitals, field health, annual statistical review, 14780
- Health insurance:
accrued cost of SMI program for 1966 and 1967, 14862
- SMI benefit experience for 1966-68 as shown on payment records, 14861
- SMI program on cash basis, current experience, 14863
- Hearn, George H., remarks, Sept. 4, 1969, 14210
- Heart, cardiac catheters, simple method for percutaneous introduction, 14497
- Heat, body armor in hot humid environment, studies in unacclimatized men, 14512
see also Temperature—Thermal expansion.
- Heat exchangers, performance evaluation, for sodium-cooled reactors, 13721
- Heat transfer, thermal radiation, blackbody electromagnetic theory, and material properties, errata, 14595
- Heating, cyclic, and thermal shock, effects on hafnia stabilized with calcia, magnesla, and yttria, 14607
- Hee, Olman, statistical analysis of U.S. demand for phosphate rock, potash, and nitrogen, 14529
- Hegemann, Bernard A., relief, 13838, 13983
- Heine, Lea, me, 14120
- Helicopters:
light helicopter cargo hooks, brackets for, description, 14259
- rotors, method for analyzing aeroelastic stability in forward flight, 14568
- Heliports, Army airfield and heliport, rigid and overlay pavement design, technical manual, change, 13662
- Helium:
compressibility data at 0°C and pressures to 800 atmospheres, 14551
- minerals yearbook chapter, 14528
- Helme, William H., factorially derived information measures for differential prediction of officer performance, 13665
- Helmets, flight, noise attenuation provided, manikin measurements, 14503
- Helminths, waterfowl (Anatidae), annotated bibliography, 14887
- Hemlock looper, *see* Looper.
- Hemolytic disease of fetus and newborn due to RH isoinmunization, 13777
- Herbert, Charles F., Alaska-Northwest Canada economic activities, summary comparison of mining laws and oil and gas laws practices with recommendations for policy, 14194
- Here's how, guide to tree planting in Southwest, 14291
- Heron, Gayle A., five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska, 14860
- Hickey, John J., variations in low-water streambed elevations at selected gaging stations in northwestern California, 14373
- Hicks, Iris O., relief, 13898
- High, Richard W., some liquid oxygen/liquid hydrogen explosive effects in controlled failure-mode tests, 14629
- High schools, counselors manual, Armed services vocational aptitude battery, 14081
- High speed ground transportation, *see* Railroads.
- High Speed Ground Transportation Office, research reports, bibliography, 14223
- Higher education, *see* Colleges and universities.
- Highway engineers, Public Road Bureau, professional engineer opportunities, 14817
- Highway-railroad grade crossings, *see* Railroad crossings.
- Highway safety, *see* Safety of life.
- Highways, *see* Roads and highways.
- Hilary P. Jones (U.S.S.):
loan, extension, agreement with Republic of China, 14924
- Hill-Burton program, hospitals and related health facilities, representative construction costs, 14805
- Hiner, Richard L., slaughtering, cutting, and processing beef on farm, 13585
- Hinson, William F., aerodynamic characteristics in pitch of 1/7-scale model of two- and three-stage rockets configuration at Mach numbers of 0.4 to 4.63, 14626
- Hip Wu, *see* Wu Hip.
- Historians, examination announcement, amendment, 13786
- History, historical handbook series, 14703
see also Military history—*also* names of departments, etc.—*also* subjects.
- Hixson, D. H., graphical solutions of geologic problems, 14880
- Holanda, Raymond, evaluation of volumetric system for vacuum gage calibration from 10⁻⁶ to 10 torr, 14644
- Holcomb, Wade G., development of NMFRL telemetry system, 2d report, 14513
- Holding companies, *see* Banks and banking.
- Hollander, Sidney, Jr., variety stores, 14856
- Holstein cattle, *see* Cattle.
- Holtz, Wesley G., soil as an engineering material, 14839
- Home canning of fruits and vegetables, 13588
- Home economics:
home and garden bulletins, 13587-590
- research reports, 13591
- Homemaking, *see* Home economics.
- Homeowners, *see* Homes.
- Homes:
mortgage insurance, FIA system, general information, 14387
- nation's program to help lower income families become homeowners (address), 14382
- Homestead, Fla., Canal 111, some hydrologic effects, 14358
- Hooks, light helicopter cargo hooks, bracket, description, 14259
- Hooper, Mary E., associate degrees and other formal awards below baccalaureate, 14129

INDEX

- Horn, Daniel, smoker's self-testing kit, 14807
- Horn, Leon, thermal gradient effects on 13 flush mounted pressure transducers, 14674
- Horses, reported arthropod borne encephalitis, 13555
- Horton, W. H. :
 applicability of Southwell plot to interpretation of test data from instability studies of shell bodies, 13674
 effect of test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
 thermal ram, new concept for load application, 13672
 use of small and large displacement data from essentially elastic buckling tests on columns and plates as means of correlating theory and experiment, 13673
- Hospitals :
 emergency medical supplies, hospital reserve, disaster inventory, 14789
 Hill-Burton hospitals and related health facilities, representative construction costs, 14805
 hospital and medical facilities construction and modernization amendments of 1969, hearings, 14056
 Indian Health Division, annual discharge, summary, 14787
 Public Health Service Indian and Alaska native contract hospitals, field health, annual statistical review, 14780
- Hours of labor :
 hours of service act amendments of 1969, report, 13910
 railroad employees, reduce 16-hour maximum limitation for certain employees, report, 13910
- House documents, 13849-863
- House of Representatives :
 appropriations, 1970, legislative, hearings, 13917
 witnesses, fees increased, report, 13908
- House reports :
 private bills, 13864-906
 public bills, 13907-910
- House Where Lincoln Died, general information, 14793
- Households :
 dietary levels, United States, 13592
 food consumption survey, 1965-66, reports, 13592
- Housekeeping, see Industrial housekeeping.
- Houses, recent purchases of cars, houses, and other durables and expectations to buy, survey data, 13770
- Housing :
 and equipment for sheep, 13586
 balanced programs for balanced budgets (address), 14385
 census of 1970—
 second count summary tapes, results, 13771
 third count (block) summary tapes, results, 13772
 housing and urban development legislation of 1969, hearings, 13922, 14017
 legislation for 1969, proposals, hearings, 13922
 lower income families, nonprofit sponsors, general information, 14389
 manufactured, technically suitable for FHA mortgage insurance, 14205
 minimum property standards, multifamily, 14206
 New York City, cost and time associated with new multifamily housing construction, 14396
 nonmetropolitan district planning assistance, 14390
 racial discrimination in housing, progress toward solution of problem (address), 14384
- Housing—Continued
 role of public welfare, 14381
 State Department living quarters allowances, 14480
 vacancy and turnover data, comparison of 2 techniques for obtaining, 14395
 see also Homes.
- Housing and Urban Development Department :
 balanced programs for balanced budgets (address), 14385
 HUD handbooks, 14386
 IP series, 14387-392
 MP series, 14393-396
 programs, 14393
 State laws enacted in 1968 of interest to HUD, 14397
- Hovering, VTOL hovering tasks, use of six-degrees-of-freedom motion simulator, 14630
- Howenstein, E. Jay, rising construction costs and anti-inflation policies, report on Western Europe, 14464
- Hubbell, J. H., photon cross sections, attenuation coefficients, and energy absorption coefficients, from 10 keV to 100 GeV, 14668
- HUD, see Housing and Urban Development Department.
- Hudson, C. Michael, effect of stress ratio on fatigue-crack growth in 7075-T6 and 2024-T3 aluminum-alloy specimens, 14635
- Hudson Bay, quality of surface waters, 14376
- Human Development Corporation, community action program, effectiveness and administration, GAO report, 14307
- Human race, see Man.
- Humanists, younger, fellowships and summer stipends, 14678
- Humboldt County, Calif., Phillipsville and Garberville communities, South Fork Eel River floods, 14150
- Humboldt National Forest, Wheeler Peak Scenic Area, general information, 14297
- Humidity, hot humid environment, unacclimated men wearing body armor, studies, 14512
- Hungarians, in Rumania and Transylvania, bibliographical list, 13860
- Hungary, mineral industry, mineral yearbook chapter, 14540
- Hunger, human needs, national nutrition survey, hearings, 14058
- Hungry Horse project, general information, 14834
- Hunt, George P., union contract expirations in north central region, July 1969-70, 14465
- Hunter, Yolanda F., relief, 13965
- Hunting, migratory birds, 1969-70, Federal regulations governing, 14884
- Hurricanes, Camille, food help, picture story, 13603
- Hurst, Ned S., effect of selected soft drink mixes on germicidal properties of iodine tablets, 14510
- Huss, Ralph E., despatches from U.S. consuls in Guaymas, Mexico, 1932-96, 14660
- Huvos, Joseph B., mineral industry of Hungary, 14540
- Hyde, Floyd H., address, Aug. 28, 1969, 14383
- Hydraulic mine filling, chemical stabilization of uranium tailings at Tuba City, Ariz., 14552
- Hydraulics :
 fast response (150 to 200Hz) electrohydraulic servos performance limitations, analysis, 14633
 hydraulic transportation of coarse solids, materials handling research, 14549
- Hydrodynamics :
 and water waves, introduction—
 fundamentals, 14168
 water wave theories, 14169

Hydrogen:

acoustic-mode instability in hydrogen-oxygen rocket, effect of injection element radial distribution and chamber geometry, 14623

effects on lactic acid production in rat liver slices, 13631

evolution during aqueous oxidation of mild steel, study, 14750

liquid, discharge, from 3.96 (13-ft.) diameter spherical tank, gaseous-hydrogen pressurant requirements, 14632

liquid oxygen/liquid hydrogen explosive effects in controlled failure mode tests, 14629

Hydrology:

contributions to hydrology of United States (series), 14373-374

hydrologic data, compilation—

Calaveras Creek, San Antonio River basin, Tex., 14338

Escondido Creek, San Antonio River basin, Tex., 14339

Little Elm Creek, Trinity River basin, Tex., 14340

hydrologic effects of Canal 111 near Homestead, Fla., 14358

Southern Utah and Goshen Valleys, Utah, selected hydrologic data, 14361

Hypertension, see Blood pressure.

I

IAEA, see International Atomic Energy Agency.

Ice:

icephobic surfaces, experiments, 13644

observations, oceanographic office observers manual, 14735

Ice Harbor Dam, fish passage report, 14148

Icke, Paul W., asbestos, 14521

Idaho:

Agricultural Stabilization and Conservation Service, annual activity summary—

1st Congressional District, 13562-563

2d Congressional District, 13564-565

electric rate book, 14217

northern, Albeni Falls Dam, Pend Oreille River, general information, 14147

soil survey, soils and people, what they can do for you, 14866

If you're not ready for another baby, 14121

Illinois:

census of business, 1967, retail trade, area statistics, 13736

climate, 14160

northern, occupational trends in sanitary services, warehouses, and stockrooms, 14466

pollution of Lake Michigan and its tributary basin, conference proceedings, 14241

uranium reconnaissance, preliminary, 13709

Illustrations, use of illustrations for paper money, postage and revenue stamps, and other obligations of United States and foreign countries, 14851

Immigration and emigration, laws, administrative decisions, index, 14398

Immunization, hemolytic disease of fetus and newborn due to RH isoimmunization, 13777

Implants, subdermally implanted devices, battery life and moisture penetration, 13633

Imports, see names or classes of articles imported.

Incentive awards, see Rewards (prizes, etc.).

Income:

Alaska, aggregate income model of semi-autonomous economy, 14193

average family income up 8 percent in 1968, 13769

consumer income, series, 13769

lower income families, nonprofit sponsors of housing general information, 14389

persons and families, Mar. 1969, selected characteristics, 13763

rural, and expenditure sample survey in Vietnam, initial report, 14425

tax returns statistics, business, 14416

Income tax:

delinquent taxes owed to States, authorize State actions in D.C. to recover on reciprocal basis, report, 14009

highlights of 1968 changes in tax law, 14411

income tax deduction for taxes, 14412

laws, reform—

revised summary list and brief description, 13946

statement of David M. Kennedy, Secretary of Treasury, 14029

testimony, 14030

testimony and additional statements, 14027-28

returns statistics, business, 14416

tax information on deduction for bad debts, 14417

tax reform subjects, press releases announcing tentative decisions, 13945

10 percent surcharge extension (remarks), 11951

Indecent publications, see Obscene matter.

Index digests:

index-digest supplement system, internal revenue bulletin, cumulative, supplement, 14413-414

Wage Appeals Board, 1964-1968, decisions, 14882

Indexes:

Atomic Energy Commission news releases, 13684

Commerce Department publications, 1968 supplement, 13810

Defense Department, specifications and standards, 14096-97

fishery publication index, 13818

Immigration and Naturalization Service, administrative decisions, 14398

medical and veterinary zoology, 13543-544

passenger lists of vessels arriving at Boston, 1848-91, pamphlet to accompany microcopy, 14659

standard instrument approach procedures, 13640

India, annotated climatological bibliography, 13620

Indian Affairs Bureau:

adult vocational training, approved courses, 14399

Commissioner, nomination of Louis R. Bruce, hearing, 14043

Indian Health Division, annual discharge summary, 14787

Indian lands:

leases, longer term, for lands located outside Indian reservations in New Mexico, report, 14000

long term leasing act of 1955, amend, report, 14001

valuation, compensate Indians of California report, 14004

Indian Ocean, tide tables, 13799

Indian reservations, selected Indian reservation program, 14119

Indiana:

census of business, 1967 retail trade, area statistics, 13737

pollution of Lake Michigan and its tributary basin, conference proceedings, 14242

INDEX

- Indians :
 - California, land value, compensate, report, 14004
 - Public Health Service Indian and Alaska native hospitals, contract hospitals, field health, annual statistical review, 14780
 - see also* names of reservations or tribes.
- Indus Plains, west Pakistan, corrosion and encrustation mechanisms in tube wells, preliminary evaluation, 14343
- Industrial housekeeping, good housekeeping for successful safety program, 14446
- Industrial instruments, import trends, 1958-67, analysis, 13731
- Industrial materials, *see* Materials.
- Industrial plants, *see* Plants (Industrial).
- Industrial property, *see* Public property.
- Industrial relations :
 - court decisions relating to national labor relations act, 14697
 - employment of green card aliens during labor disputes, hearings, 13926
 - national labor relations act, amend to make unfair labor practice to employ aliens dwelling in a foreign country during labor dispute, hearings, 13926
- Industrial safety, *see* Safety of life
- Industry :
 - aircraft and missiles, 1957-68 R & D, 14716
 - Alaskan industries, summary by standard industrial classification and corporate classification, 14200
 - current industrial reports, 13761-762
 - wage survey, iron and steel foundries, 14457
- Infants, hemolytic disease of fetus and newborn due to RH isoimmunization, 13777
- Inflation (finance) :
 - rising construction costs and anti-inflation policies, report on Western Europe, 14464
- Influenza, National Communicable Disease Center fact sheet, 14793
- Information centers, *see* Information services.
- Information services :
 - educational information centers, directory, 14131
 - State and territorial travel information offices, list, 14957
- Infrared rays, improvement of clear column radiance determination with supplementary 3.8u window channel, 14163
- Infrared spectrum, *see* Spectra.
- Inhalation, anesthetics, theories of mechanism of action, 13627
- Injectors, injection element radial distribution and chamber geometry, effect of on acoustic-mode instability in hydrogen-oxygen rocket, 14623
- Inorganic compounds, inorganic salts and compounds, analyzed reagent and reagent grade, 14105
- Insect pests, *see* Insects.
- Insecticides, act, administration deficiencies hearings, 13930
- Insects :
 - cotton—
 - insect parasites, rearing in laboratory, 13605
 - rearing in laboratory, 13604
 - environmental conditions relating to harmful insects in Mainland southeast Asia, 13657
 - major pests in North Dakota shelterbelts, distribution and abundance by climate and host age, 14289
 - saving forests and related wildlife resources from insects and diseases, 13599
- Inspection (Industrial), *see* names of articles, etc., inspected.
- Installment credit :
 - consumer credit regulations—amendment to Federal Reserve regulation Z, 14233
 - interpretations, errata, 14228
- Institute for Telecommunication Sciences, ESSA technical report ERL-ITS series, 14165-167
- Institute of History of Natural Science and Technology 10th scientific conference, transactions, 14651
- Institutes for Environmental Research, scientific and technical publications, list, 14173
- Instruction, *see* Education.
- Instrument landings, *see* Landings (aircraft).
- Instruments, aircraft instrument repair facilities, evaluation of radium contamination, 14790
- Insurance, *see* types of insurance.
- Integrators, use of LIF detectors in neutron flux integrator, feasibility study, 13693
- Intellect, speech intelligibility, effects of spectrum sampling on, 13667
- Intelligence, *see* Intellect.
- Intensive culture of Douglas fir, 14267
- Interest equalization tax act :
 - extend—
 - hearing, 14025
 - statement, 14052
- Interfaces, liquid/air interface, density gradients near, 14742
- Interference drag, *see* Drag aerodynamics.
- Intergovernmental relations, toward a new fiscal federalism (remarks), 14953
- Interior and Insular Affairs Committee, Senate :
 - committee print, 14040
 - hearings, 14039, 14041-46
 - reports, 13990-992, 13995-996, 13998, 14000-8
- Interior Department :
 - appropriations, 1970 hearings, 14015
 - decisions, bound volume, 14400
 - manpower, funding requirements and capability to oversee oil resource development activities on public lands in Alaska, hearing, 14046
 - research and development contracts and grants, guide, 14401
 - saline water research and development progress reports, 14403-407
 - Steering Committee report, transmission study 190, 14409
- Intermountain region, Forest Service, year-book, national forests in profile, 14273
- Internal revenue, internal revenue bulletin, cumulative, index-digest supplement system, supplements, 14413-414
- see also* Taxation—also names of certain taxes, e.g. Income tax.
- Internal security, *see* National security.
- Internal Security Committee, House, hearings, 13933
- International Atomic Energy Agency :
 - application of safeguards to cooperation, agreement with—
 - Argentina, 14923
 - Portugal, 14919
- International Convention on Load Lines, load lines, process-verbal of rectification in convention of Apr. 5, 1966, 14921
- International Development Agency, loan program financial activities, status June 30, 1968, GAO review, 14305
- International exchanges, foreign studies extension program research and training opportunities abroad, 14142
- International finance, recent international financial and monetary developments, hearing, 13923
- International load lines, *see* International Convention on Load Lines.

- International organizations:
 international organizations series, 14905
 United States foreign credits, 14949
 International postal service, directory of
 international mail, 14770
 International relations:
 strategic and foreign policy implications
 of ABM systems, antisubmarine war-
 fare and multiple independently tar-
 geted reentry vehicles (MIRV), hear-
 ings, 14031
 United States policy in Near East crisis,
 14906
 Interstate Airmotive, Inc., aircraft accident,
 14717
 Interstate and Foreign Commerce Committee,
 House, report, 13910
 Interstate Commerce Commission, decisions
 (bound report), 14430
 Inventories, hospital reserve disaster inven-
 tory, emergency medical supplies, 14789
 Investment companies:
 small business capital bank, establish,
 hearings, 14019
 small business investment act, amend,
 reports, 13993-994
 Investments:
 small business investment act, amend,
 hearings, 14019
 District of Columbia, legal investments for
 trust funds, list, 14116
 Investors, restrict transfers to foreign coun-
 tries by substantial investors in U.S. etc.,
 14432
 Inyo National Forest, guide to forest of an-
 cient bristlecone pines, 14265
 Iodine, tablets, soft drink mixes, effect on
 germicidal properties of, 14510
 Ion exchange, counter-current continuous,
 removal of calcium from sea water to pre-
 vent scaling of distillation errata, 14403
 Ionosphere, fBEs for solar cycle minimum,
 numerical maps, 14167
 Ions:
 molecular collisions with long-lived capture
 complexes, computer plotting descrip-
 tion, 14645
 nitrate ion, dilute solution reactions, as
 applied to water reclamation, 14245
 Iowa:
 Agricultural Stabilization and Conserva-
 tion Service, program summary, 13559
 census of business, 1967, retail statistics,
 13738
 National Park Service, Iowa Governor's
 book, 14705
 IP series, 14387-392
 Iran:
 atomic energy cooperation for civil uses,
 agreement, 14927
 plant quarantine import requirements,
 13550
 Iraq, background notes, 14899
 Iron:
 foundries, industry wage survey, 14457
 ores, metallization, with solid reductants,
 14554
 resources in Irving Formation, 14329
 slag-iron and steel, minerals yearbook
 chapter, 14561
 Iron isotopes, modified ^{59}Fe ferrokinetic pro-
 cedure, 13632
 Iron ores, *see* Iron.
 Irradiation, *see* Radiation.
 Irradiators:
 portable cesium irradiator—
 operational reports, 13701
 visit to Washington State, 13702
 Irrigation:
 desalted water for irrigation, value, study,
 14843
 sprinkler irrigation, soils, climate, and land
 classification, 14541
see also Canals.
 Irrigation projects, *see* names of projects.
 Isoimmunization, *see* Immunization.
 Isothermal flow, *see* Flow.
 Isotopes, *see* names of isotopes, e.g., Iron
 isotopes—Lead isotopes.
 Israel:
 desalting plant, large prototype, U.S. par-
 ticipation in development, hearings,
 13928
 United States policy in Near East crisis,
 14906
 Isthmian Canal, *see* Panama Canal.
 Istle, suspension of duty, continue, report,
 13997
 It's Y.O.U., 14136
 ITV (instructional television), *see* Television.
- J**
- Jacinto Antonio, Franklin, relief, 13961
 Jacksonville, Fla., port, 14152
 Janz, G. J.:
 electrochemistry of molten salts, Gibbs free
 energies and excess free energies from
 equilibrium-type cells, 14666
 surface tension data, 14666
 Japan:
 claims of Trust Territory of Pacific Islands
 against Japan, agreement, 14925
 loan of vessels U.S.S. Edwards and U.S.S.
 Leary, extension, agreement, 14913
 Mutual Defense Assistance Office, agree-
 ment, 14917
 Jenkins, I. C., paper, Mar. 28, 1969, 14813
 Jersey cattle, *see* Cattle.
 Jet aircraft, *see* Aircraft.
 Jet plumes, propulsion motor plume, esti-
 mating diameter of plasma, 14746
 Jets, external-flow jet-augmented flaps on jet
 transport model, static and dynamic
 stability derivatives, 14646
 Jewett, Ann, physical fitness test standards
 for women marines, 14505
 Jewish Historical Society of Greater Wash-
 ington, lease of District property to, 13865,
 13989
 Job development for hard-to-employ, 14441
 Job satisfaction, aircrew trends, 2-year study,
 13630
 Jobs, *see* Employment—Occupations.
 Johler, J. Ralph, ground wave propagation
 in normal and ionized atmosphere, 14166
 John Day Dam, fish passage report, 14148
 Johnson, Alice M., smallfly smiles, guide for
 teaching dental health in community care
 programs, 14696
 Johnson, Jimmie H., Step test of motivation
 to excel, 14518
 Johnson, P. E., evaluation of improved fire
 resistant glove materials for gloveboxes,
 13720
 Johnston, Edward E., nomination, hearing,
 14042
 Johnston, James R., oxidation and thermal
 fatigue cracking of nickel- and cobalt-base
 alloys in high velocity gas stream, 14624
 Johnston, Richard H., U.S. Geological Survey
 tracer study Amargosa Desert, Nye County,
 Nev., exploratory drilling, tracer well con-
 struction and testing, and preliminary find-
 ings, 14360
 Jones, Dorothy M., career development,
 selected references, 14379
 Jones, Douglas N., subregional economic
 analysis of Alaska, 14199
 Jones, Edith A., dietetic manual for metabolic
 kitchen units, 14686
 Jones, James H., processing of digital data
 logger STD tapes at Scripps Institution of
 Oceanography and Bureau of Commercial
 Fisheries, La Jolla, Calif., 13823
 Judges, District of Columbia, retirement act
 of 1964, amend survivor annuity provi-
 sions, report, 14010
 Judiciary Committee, House, reports, 13866-
 906
 Judiciary Committee, Senate:
 hearings, 14047-51
 reports, 13950-971, 13976-13988

INDEX

Junction boxes, Federal item identification guide, change, 14086
Justice Department:
Attorney General, foreign agents registration act, administration report, 14434
opinions of Attorney General, 14432

K

Kaczmarzski, Adela, relief, 13837
Kail, L. T.:
requirements study for biotechnology laboratory for manned earth orbiting missions, results, recommendations, and requirements, 14581
summary of individual experiments requirements, 14581
Kaiser, Robert, study of ferromagnetic liquid, 14579
Kainkou National Forest, Priest Lake, recreation area, 14268
Kansas:
Agricultural Stabilization and Conservation Service, congressional district summary, 13566
basins projects, interim report, 14844
census of business, 1967 retail trade, area statistics, 13739
uranium reconnaissance, preliminary, 13710
Kansas City, Mo., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14312
Katz, Jacob E., address, May 13, 1969, 13728
Kay, Evelyn R., summaries of manpower surveys and reports for developing countries, 1958-68, 14459
Keller, George V., electrical resistivity measurements, Midway and Kure Atolls, 14353
Keller, Rudolf, properties of nonaqueous electrolytes, 14590
Kelly, Paul A., relief, 13881
Kennedy, David M.:
remarks,
Aug. 14, 1969, 14951
Sept. 4, 1969, 14029
Kennedy, Patrick C., major insect pests in North Dakota shelterbelts, abundance and distribution by climate and host age, 14289
Kennedy, Robert S., sixty-minute vigilance task with 100 scoreable responses, 14501
Kent, T.S., TRIC Agent urethritis, report of serological fluorescent antibody and associated findings, 14517
Kent State University, Students for a Democratic Society, activities investigation, hearings, 13933
Kentucky:
census of business, 1967, retail trade, area statistics, 13740
potential development of central Appalachia, preliminary analysis, 13650
uranium reconnaissance, preliminary, 13709
Kerosene stoves, *see* Stoves.
Keulegan, G. H., theories in design of proposed Crescent City Harbor tsunami model, 14155
Keup, Lowell E., role of bottom-dwelling macrofauna in water pollution investigations, 14791
Keys, *see* Locks and keys.
Khalil, Hassan H.:
repeated or continual measurements of cardiac output in squirrel monkey (*Saimiri sciureus*) by thermodilution, 14496
simple method for percutaneous introduction of cardiac catheters, 14197
Kidneys:
disease prevention and control, guidelines for community programs of chronic disease control, 14794
Kidney disease services, facilities and programs in U.S., 14795

Kidneys—Continued
renal diseases and hypertension, Public Health service cooperative studies, conferences, proceedings, 14800
Kimbell, Charles L., mineral industry of Pakistan, 14541
Kinetics, vaporization and decomposition, of candidate re-entry blackout suppressants in low-pressure flames, 14567
Kitchens, Clinical Center dietetic manual for metabolic units, 14686
Kites, moored, Federal aviation regulations, 14186
Klingberg, C. L., effect of disparity in photo scale and orientation on change detection, 13666
Koehler, Wallace, survey of current debugging concepts, 14576
Koelling, Gordon W., mineral industry of Colombia, 14539
Komar, Charles A., laboratory oil-recovery tests with ultrasonically formed emulsions, 14559
Kootenai Indians, judgment funds, disposition, report, 14003
Korea, Air Force build-up, 5th Air Force report, 13619
Kortess unit, *see* Missouri River Basin project.
Kovachina, T. A., solubility of nickel in liquid sodium of high oxide content, 14751
Kraft, Ivor, prelude to school, evaluation of inner-city preschool program, 13778
Kramer, Morton, patients in State and county mental hospitals, 14796
Kranz, S., experimental investigation of magnetohydrodynamic flow around blunt bodies, 14574
Kure Atoll, electrical resistivity measurements, 14353
Kurzius, Shelby C., vaporization and decomposition kinetics of candidate re-entry blackout suppressants in low-pressure flames, 14567
Kyanite, and related minerals, mineral year-book chapter, 14532

L

L series, 13781-782
Labor:
conditions and organizations in Turkey, 14463
labor statistics 1969, handbook, 14460
market and the Puerto Rican, facts, 14479
monthly labor review, reprint, 14464
statistics for national decision making (address), 14438
work and workers, some aspects of changing patterns in urban environment, 14470
see also headings beginning Labor.
Labor and Public Welfare Committee, Senate:
committee print, 14052
hearings, 14053-57
Labor Day, how it came about, what it means, 14437
Labor Department:
Neighborhood Youth Corps programs, effectiveness and administrative efficiency, GAO report—
Gary, Ind., 14310
Gila River Indian Reservation and Pinal County, Ariz., 14311
Kansas City, Mo., 14312
Maricopa County, with emphasis on Phoenix, Ariz., 14313
safety training programs, occupational safety aid, OSA LS series, 14446-450
Labor disputes, *see* Industrial relations.
Labor-management relations act, *see* Industrial relations.
Labor relations, *see* Industrial relations.

- Labor Statistics Bureau:
bulletins, 14451-461
north central regional reports, 14465-466
regional reports, Middle Atlantic region, 14468
- Labor unions, union contract expirations 1969-70, in north central region, 14465
- Laboratories:
biotechnology, for manned earth orbiting missions, study—
results, recommendations, and requirements, 14589
summary of individual experiments, requirements, 14581
gravity measurements and standards laboratory, 14675
laboratory oil-recovery tests with ultrasonically formed emulsions, 14559
rearing cotton insect parasites in laboratory, 13605
rearing of cotton insects in laboratory, 13604
see also names of laboratories or places where located.
- Labus, Thomas L., natural frequency of liquids in annular cylinders under low gravitational conditions, 14648
- LACBWR, *see* Reactors (atomic).
- La Crosse boiling water reactor, *see* Reactors (atomic).
- Lactic acid, production in rat liver slices, effects of pH, CO₂, and buffering systems, 13631
- Ladders, *see* Stepladders.
- Laguna Pueblo, lands, hold in trust, report, 14002
- Lake Chelan National Recreation Area, general information, 14712
- Lake County, Ind., community action program effectiveness and administration, GAO report, 14398
- Lake County, Tenn., soil survey report, 14875
- Lakes, reclamation, recreational facilities, region 2, 14838
- Laminated materials, capacitive measurement system for nondestructive testing of fiber glass reinforced plastic laminates, 13671
- Lampkin, Emmett C., effects of differing amounts of training and of monochromatic targets on sextant sighting performance, 14605
- Land:
ground motion and containment, analysis of data, Project Handcar, 13706
Pacific Southwest land and water resources, comprehensive framework study program, 14764
private and public ownership, differentiation, Federal reclamation laws, acreage limitation, amendments, hearing, 14039
sprinkler irrigation, soils, climate, and land classification, 14841
studies of land subsidence (series), 14345
subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif., 14345
- Landings (aircraft):
standard instrument approach procedures, index, 13640
- Landmarks in science, 14520
- Landslides, Alaska earthquake of Mar. 27, 1964, effects on various communities, 14346
- Language and languages, higher education programs in foreign language and area studies, research and training opportunities abroad, 14142
- Lansche, Arnold M., mineral industry of Burma, 14538
- Lanthanum, lanthanum fluoride electrode, measurement of fluoride activity and concentration in seawater, 14753
- Lara, Joe M., gamma probe calibration tests, 14833
- Laramie Petroleum Research Center, general information, 14533
- Latin America:
alliance for progress, U.S. foreign aid, 1970 proposed program, 14426
containerization and documentation in inter-American trade (remarks), 14209
inter-American transportation, affected by regulatory problems (remarks), 14211
Latin America and Caribbean, analytical survey of literature, 13660
launch vehicles, *see* Spacecraft.
Laundry and laundries, field laundry operations, Army technical manual, change, 13663
Lautzenheiser, Robert E., climates of States, Massachusetts, 14161
- Law:
current legal literature, list, 14181
equal employment opportunity under Federal law, 13785
law of United States, classification, Library of Congress, 14482
slip laws (private) 91st Congress, 13834-845
slip laws (public) 91st Congress, 13846
State laws enacted in 1968 of interest to Housing and Urban Development Department, 14397
Law enforcement, and traffic regulation on national forest development road system, 13602
Law Enforcement Assistance Administration, annual report, 14431
Lawlor, John T., relief, 13880
Laws, *see* Law—*also* subjects.
Lazanoff, Arthur S., feasibility study of using LIF detectors in neutron flux integrator, 13693
LEAA, *see* Law Enforcement Assistance Administration.
- Lead:
lead-zinc exploration, Mississippi Valley, lead isotope guides, 14335
rolled Pb-Cd-Sb alloys, tensile and stress-rupture properties, 14550
Lead isotopes, guides for Mississippi Valley lead-zinc exploration, 14335
- Leadership:
officers' call, the challenge of leadership, Army pamphlet, 13659
recreation program, suggested 2-year post high school curriculum, 14141
ROTC program, where the leaders are, 13682
serum uric acid levels and leadership in Marine Corps, 14508
- Leaf cast, brown-spot needle blight of long-leaf pine, 14263
- Leaks:
fuel-elements fission product leakage at NASA Plum Brook Reactor, causes, measurement, and elimination, 14622
leakage rates and torque of various lubricated lip seal designs at peripheral velocity of 120 feet per second, 14647
- Learning, children with learning disabilities, act of 1969, hearings, 13924
- Leary (U.S.S.):
loan, extension, agreement with Japan, 14913
- Leases:
Indian lands—
located outside Indian reservations in New Mexico, longer term, report 14000
long term leasing, amend act, report, 14001
- Leave of absence:
court leave for employees of United States and District of Columbia, correct inequities, report, 13907
Federal agencies, principles and procedures, GAO guidance manual, 14302
- Lee, Ronald F., public use of National Park System, 14714
- Leftin, M., numerical maps for fBe's solar cycle minimum, 14167

INDEX

- Legal literature, *see* Law.
 Legislation, hearing and urban development, hearings, 14017
see also Law—*also* subjects.
 Legislative appropriations, *see* Appropriations.
 Lehigh River and Valley, water quality and discharge of streams, 14374
 Leltz, F. B., research on plezodialysis, 14405
 LeMéhauté, Bernard, introduction to hydrodynamics and water waves, 14168-169
 Lenses, lighting, Federal item identification guide, change, 14088
 Letters:
 microcopy, pamphlet to accompany—
 Mint Bureau Director, 1795-1817, letters sent, 14656
 Revenue Commissioner, 1794-96, Tench Coxe, on procurement of military, naval and Indian supplies, 14657
 Levadi, Solomon S., relief, 13986
 Lewis, John R., nitrogen, 14546
 Lewis, William, simplified analytical model for use in design of pump-inlet accumulators for prevention of liquid-rocket longitudinal oscillation (pogo), 14638
 Lewis and Clark Trail Highway, interstate planning and coordination, expedite, hearings, 13939
 Li, Cheng-Huai, relief, 13867
 Libraries:
 colleges and universities, data for individual institutions, fall 1967, statistics, 14138
 discover and use your public library, 14855
 medical library amendments of 1969, hearing, 14057
 medical library assistance act of 1965, extend, hearing, 14057
 Library of Congress:
 appropriations, 1970, legislative, hearings, 13917
 classification, class K, subclass KF, law of United States, 14482
 License plates, *see* Automobile license plates.
 Licenses, *see* classes of persons to whom, or subjects for which, licenses are issued.
 Life insurance, veterans and servicemen, Government programs, annual report, 14960
 Lift (aircraft):
 lifting horizontal-axis rotating-wing aeronautical systems (HARWAS), review and evaluation, 13677
 Lifting, safe lifting, proper way to lift, 14447
 Lightle, Paul C., brown-spot needle blight of longleaf pine, 14263
 Lights and lighting, Naval Oceanographic Office, list, British Isles, English Channel and North Sea, 14729
 Limitations (water):
 private and public ownership of lands, differentiation, Federal reclamation laws, acreage limitation, amendments, hearing, 14039
 Lin-Fu, Jane S., hemolytic disease of fetus and newborn due to RH isoimmunization, 13777
 Lincoln, Abraham, Ford's Theatre and House Where Lincoln Died, general information, 14703
 Liquid hydrogen, *see* Hydrogen.
 Liquid oxygen, *see* Oxygen.
 Liquids:
 ferromagnetic, study, 14579
 natural frequency in annular cylinders under low gravitational conditions, 14648
 Lishka, R. J., water metals, 14779
 Lists, *see* subjects of lists.
 Lithographs, Air Force lithograph series, 13621-624
 Lithosphere, injection of gas into lithosphere at National Reactor Testing Station, Idaho Falls, Idaho, 13696
 Litsas, John, employee compensation, 1966, in private nonfarm economy, 14458
 Little Elm Creek, Trinity River basin, Tex., compilation of hydrologic data, 14340
 Liver flukes, sheep, general information, 13593
 Livestock:
 claims, packers and stockyards act can help you recover losses, 13598
 statistics, 1968, supplement, 13607
 Living conditions, *see* Cost and standard of living.
 LMFBR (Liquid metal fast breeder reactor), *see* Reactors (atomic).
 Load (mechanics):
 effect of test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
 thermal ram, new concept for load application, 13672
 Load Lines, International Convention on, *see* International Convention on Load Lines.
 Loans:
 Farmers Home Administration—
 to associations for water and waste disposal, provide flexible interest rates, hearing, 13911
 dealer and contractor guide, property improvement loans, 14388
 economic opportunity loan program for low-income rural families, administration and effectiveness, GAO report, 14304
 insured operating loans to low-income farmers and ranchers, authorization, hearing, 14014
 national defense student loan program, 1969-70 allocations of Federal funds, 14052
 Small Business Administration guarantee, clarify authorization, report, 13993
 Local government, *see* Government.
 Local transit, directory of urban transportation research and planning projects, 14394
 Locks and keys, keys, Federal item identification guide, change, 14087
 Lodgepole pine, *see* Pine.
 Lofgren, B. E., land subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif., 14345
 Logsdon, Donald F., modified 59 Fe ferrokinetic procedure, 13632
 Long leaf pine, *see* Pine.
 Longitudinal stability, *see* Stability of aircraft.
 Loomis, William R., lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
 Loopers, 1968 hemlock looper project, Mount Baker National Forest, 14266
 Loran:
 A table—
 Gulf of Mexico, rate 3H1, 14731
 south Pacific, rate 2L2, 14732
 C table—
 east coast, U.S., pair SS7-X, 14733
 northwest Pacific, pair SS3-Z, 14734
 Loux, P. C., seismic interference and reciprocity for HE row charge, 13705
 Lowder, Enoch A., sand and gravel conveyance, 13973
 Lubricants, for inerted lubrication systems in engines for advanced aircraft, 14649
 Lubrication, lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
 Ludwig, Lawrence P., torque and leakage rates of various lubricated lip seal designs at peripheral velocity of 120 feet per second, 14647
 Lunar landings:
 Apollo—First manned lunar landing, color prints, 14593

Lunar landings—Continued

- Apollo—Man on the moon, color print, 14594
 Lutton, R. J., Buggy, preshot geologic and engineering properties investigations, 13704
 Luxembourg, Grand Duchy, background notes, 14891

M

- MA SP series, 14487-488
 McCall, Thomas D., transistor series amplifier, 14762
 McCann, Howard, evaluation of bias in license plate traffic survey response, 14814
 McCarren, Edward T., water quality and discharge of streams in Lehigh River basin, Pa., 14374
 McDonald, Malcolm E., annotated bibliography of helminths of waterfowl (Anatidae), 14887
 McGuinness, C. L., ground-water levels in U.S., 1962-66, North Central States, 14377
 McGuire, Marie C., address, June 2, 1969, 14385
 McGuire, R. C., paper, June 17, 1969, 13647
 McKendry, James M., implications of BESRL research for displays in tactical information processing, 13668
 McKnight, M. E., estimating defoliation of Douglas-fir and white fir by western budworm, 14287
 McNary Dam, fish passage report, 14148
 McNeil, William J., transplanting adult pink salmon to Sashin Creek, Baranof Island, Alaska, and survival of their progeny, 13822
 MacPherson, Alan C., microwave photodiodes, sensitivity as function of geometry and bias, 14754
 McPherson County, Nebr., soil survey report, 14876
 McQuigg, J. D., climates of States, Missouri, 14162
 Macrofauna, *see* Fauna.
 Magee, William P., relief, 13873
 Magna, late Cenozoic, intrusion and eruption as source of batholiths and volcanoes in Glacier Peak area, North Cascades, Wash., 14347
 Magnesia, *see* Magnesium oxide.
 Magnesium:
 compounds, minerals yearbook chapter, 14535
 minerals yearbook chapter, 14534
 Magnesium oxide, hafnia stabilized with, effects of cyclic heating and thermal shock, 14607
 Magnetic materials, transportation of magnetized materials, Federal aviation regulations, 14186
 Magnetic separators, magnetic separation of minerals of low susceptibility and small particle size, 14555
 Magnetic tape:
 processing of digital data logger STD tapes at Scripps Institution of Oceanography and Bureau of Commercial Fisheries, La Jolla, Calif., 13823
 summary tapes—
 second count from 1970 censuses of population and housing, 13771
 third count (block) from 1970 census of population and housing, 13772
 Magnetism:
 ferromagnetic liquid, study, 14579
 magnetoaerodynamic flow around blunt bodies, experimental investigation, 14574
 Magnetosphere, magnetospheric duct propagation research using Alouette-2 topside-sounder observations, 14612
 Mail matter:
 mail fraud laws protecting consumers, investors, businessmen, medical patients, students, 14771

Mail matter—Continued

- military assistance program address directory, MILSTRIP, 14113-114
 obscene material sold or offered for sale to minors, exclude from U.S. mails as nonmailable, hearings, 13936
 Mails, *see* International postal service.
 Maine:
 Agricultural Stabilization and Conservation Service—
 1967 program year report, 13567
 1968 program year report, 13568
 landings, fish and shellfish, annual summary, 13814
 Making it, 14773
 Maletic, John T., sprinkler irrigation, soils, climate, and land classification, 14841
 Malheur National Forest:
 Douglas-fir tussock moth control, 1965 surveillance, Burns project, 14295
 thinning program, 14296
 Mall, economic trends and their implications for United States, 14418
 Mallory, E. C., Jr., water load of uranium, radium, and gross beta activity at selected gaging stations, 14371
 Mammals, of public health significance, pictorial keys, 14799
 Man, perspectives on human deprivation, biological, psychological, and sociological influences, 14693
 Man-in-space, *see* Outer space.
 Management, *see* Administrative management—Forest management—Planning.
 Manasquan, N. J. to Cape Hatteras, coastal warning facilities chart, 14966
 Manikin measurements of noise attenuation provided by flight helmets, 14503
 Manipulation errors in finite element analysis of structures, 14573
 Manpower:
 development and training act, guidelines for submission of applications for manpower research institutional grants, 14436
 manpower research institutional grant program, first three years, 14439
 manpower technical exchange (periodical), 14440
 MPTA experimental and demonstration findings, 14441
 programs, effective management information system, development, ESARS handbook, 14435
 surveys and reports for developing countries, 1958-68, summaries, 14459
 training, message from the President, 13862
 utilization, affirmative program, equal opportunity in Reclamation Bureau, 14832
 Manpower analysts, examination announcement, amendment, 13786
 Manuals, *see* names of departments, etc., issuing manuals—*also* subjects.
 Manufactures and manufacturers:
 census, 1967, EC series, 13754-755
 small manufacturers, management aids, 14855
 see also names of manufactured articles.
 MAP (military assistance program), *see* Military aid.
 Mapping, *see* Maps and charts.
 Maps and charts:
 aeromagnetic interpretation, Blue Range primitive area, 14328
 bathymetric atlas of northwestern Pacific Ocean, 14736
 catalog of copyright entries, 14067
 computer mapping, 13759
 Geological Survey, increase revenues through changes in map-pricing practices, 14322
 see also names of localities—*also* subjects.
 Mardessich, Branka, relief, 13889

INDEX

- Maricopa County, Ariz., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14313
- Marine accidents, radar-equipped merchant ships, study of collisions, and preventive recommendations, 14720
- Marine Corps:
- Fleet Marine Force manual FMFM series, 14484
 - infantry battalion, Fleet Marine Force manual, 14484
 - leadership and serum uric acid levels, 14508
 - Officer Candidate School, Quantico, Va., physical training platoon, evaluation, 14506
 - women marines, physical fitness test standards, 14505
- Marine services, chart, Alaskan waters, 14968
- Maritime Administration, SP series, 14487-488
- Maritime industry, *see* Merchant marine.
- Maritime safety data for shipyards, 14443-445
- Maritime traffic, *see* Ships.
- Markers, self luminous, aircraft exit, spring pin mounted, military standard, 14112
- Marketing, *see* Markets and marketing.
- Markets and marketing:
- average marketing guides, 14063
 - marketing research, major government sources and statistics (address), 13728
 - marketing research reports, 13594
 - see also* names or classes of commodities, etc., marketed.
- Marratto, Patrick, relief, 13835, 13970
- Mars (planet):
- entry capsule, evaluation of configuration changes on optimum structural designs, 14585
- Martinique, plant quarantine import requirements, 13551
- Maryland, uranium reconnaissance, preliminary, 13711
- Mass (physics):
- longitudinal mass-spring modeling of launch vehicles, 14620
- Mass spectrometry, *see* Spectrometry.
- Massachusetts:
- Agricultural Stabilization and Conservation Service, annual report and statistical summary, 13558
 - climate, 14161
- Mast, P. W., optimum packing of hollow spheres in buoyancy materials, 14752
- Materials:
- national policy goals and programs, review, 14061
 - symbols for packages and containers for hazardous industrial chemicals and materials, military standard, 14108
 - see also* names of materials.
- Materials handling, research, hydraulic transportation of coarse solids, 14549
- Mathematics, FORTRAN program for machine computation of group tables of finite groups, 14641
- Mattresses, current industrial reports, 13761
- Mazure, James E., remarks, Sept. 4, 1969, 14211
- MBTA (manpower development and training act), *see* Manpower.
- Me, 14120
- Meanley, Brooke, natural history of king rail, 14883
- Measurements:
- English and metric systems of measurement, brief history and use, 14671
 - experimental, of expanding storable propellant products simulated by combustion of gaseous reactants, 14642
 - geomagnetic field variation measurements, induction loop antennas for, 14164
 - outdoor, of photosynthesis of tree seedlings, use of assimilation chamber, 14285
 - Measurements—Continued
 - repeated or continual, of cardiac output in squirrel monkey (*Saimiri sciurens*) by thermomodulation, 14496
 - users bulletin, 14664
 - see also* subject of measurement.
- Measures, *see* Metric system.
- Measuring instruments, weighing and measuring devices, specifications, etc., replacement pages, 14663
- Meat, statistics, 1968, supplement, 13607
- Mechanics (persons):
- aviation structural mechanic, S 3 & 2, 14738
 - electrical appliance serviceman, suggested guide for training course, 14133
- Mechanics (science):
- coupled acousto-mechanical systems, transient response, 14588
- Mechanisms with elastic couplings, dynamics and stability, 14650
- Medicaid, *see* Medical assistance.
- Medical assistance, medicaid-medicare study, staff data, 14026
- Medical care:
- hospital and medical facilities construction and modernization amendments of 1969, hearings, 14056
 - human needs, provide for poor, national nutrition survey, hearings, 14058
 - improvements made in cost accounting system, Veterans Administration, GAO report, 14319
 - medicaid-medicare study, staff data, 14026
 - medicare, personnel qualifications, 14380
 - uniformed services health benefits program, 13651
- Medical facilities, *see* Hospitals.
- Medical libraries, *see* Libraries.
- Medical records, ambulatory service data system, 14778
- Medical research, *see* Medicine.
- Medical supplies, emergency, hospital reserve disaster inventory, 14789
- Medical zoology, *see* Zoology.
- Medicare, *see* Medical care.
- Medicine:
- aeromedical reviews, 13627
 - medical research and education, 1966, 1969, support of foundations and non-profit research institutes, resources analysis memo, 14695
 - medicaments, Federal item identification guide, 14090
 - School of Aerospace Medicine, technical reports, 13628-633
- Meeves, Henry C., beryllium, 14523
- Meier, Robert W., address, Apr. 23-25, 1969, 14937
- Mello, James F., foraminifera and stratigraphy of upper part of Pierre shale and lower part of Fox Hills sandstone (Cretaceous), north-central South Dakota, 14348
- Melosh, R. J., manipulation errors in finite element analysis of structures, 14573
- Melting, vacuum melting, residual gas analysis, mass spectrometry, 14556
- Melvin, Raymond C., relief, 13887
- Membranes, asphaltic, for water seepage control, 14826
- Mendocino National Forest, 1968 report, 14300
- Mental health:
- considerations in public health, guide for training and practice, 14690
 - definition and measurement, 14786
 - statistics, mental health facilities reports, 14796
- Mental hospitals, *see* Mental institutions.
- Mental institutions, patients in State and county mental hospitals, 1967, list, 14796
- Mentally retarded, opportunity, help for the mentally retarded, 14848
- Mercer, John C., expansion of automation in terminal ATC facilities, 14936

- Merchandise, *see* Commercial products.
 Merchant marine:
 act of 1936, amend, hearing, 13934
 Navy League support (remarks), 14208
 radar-equipped merchant ships, collisions, study, and preventive recommendations, 14720
 research and development (remarks), 14487
 technological advancement (remarks), 13808
 Merchant Marine and Fisheries Committee, House, hearings, 13934
 Merchant ships, *see* Ships.
 Mercury, minerals yearbook chapter, 14536
 Mergers, *see* Business consolidations.
 Mesilla, N. Mex., ground water in Mesilla Valley shallow, quality, 14354
 Metabolism, dietetic manual for metabolic kitchen units, 11686
 Metallization of iron ores with solid reductants, 14554
 Metals:
 base metal properties, flame straightening and its effect, 14854
 corrosion in tropical environments, 14744
 Cripple Creek district, Colo., distribution, 14350
 metal components for long-term development of Egypt's corrosive ground waters, selection, 14357
 structural ferrous, 16 years' exposure to sea and fresh water, 14744
 water metals, report of study, 14779
 Meteorological Center, National, *see* National Meteorological Center.
 Meteorology:
 improvement of clear column radiance determination with supplementary 3.8u window channel, 14163
 processing and display experiments using digitized ATS-1 spin scan camera data, 14171
 Metric system, English and metric systems of measurement, brief history and use, with chart of modernized metric system, 14671
 Metropolitan areas, *see* Cities and towns.
 Mexico, Gulf of, Loran-A table, rate 311, 14731
 Mexican-Americans, culture, heritage, etc., handbook for educators, 14139
 Mice, domestic, control, training guide, 14784
 Michigan:
 census of business, 1967, retail trade, area statistics, 13741
 pollution of Lake Michigan and its tributary basin, conference proceedings, 14241
 uranium reconnaissance, preliminary, 13709
 Michigan, Lake, pollution, Lake Michigan and its tributary basin, Illinois, Indiana, Michigan, and Wisconsin, conference proceedings, 14241
 Microelectronic circuits, *see* Circuits.
 Microfilm, National Archives publications, pamphlet accompanying, 14655-661
 Microwaves, microwave photodiodes, sensitivity as function of bias and geometry, 14754
 Midway Atoll, electrical resistivity measurements, 14353
 Midway Islands, geology of area, Hawaiian Islands (series),
 Migrant labor, migrant and seasonal farmworkers program in Phoenix, Ariz., effectiveness and administration, GAO report, 14309
 Mild steel, *see* Steel.
 Militants, civil and criminal disturbances, campus riots and disorders, Oct. 1967-May 1969, staff study, 14037
 Military Academy, West Point, USMA library bulletins, 14519-520
 Military aid:
 agreement with—
 Belgium, 14929
 Japan, 14917
 foreign assistance act of 1969, hearings, 13928
 military assistance facts, 14098
 military assistance program, address directory, MILSTRIP, 14113-114
 Military aircraft, *see* Aircraft.
 Military Airlift Command, airlift service management report, 13625
 Military art and science:
 Army transportation movements management, 13656
 special military operations handbook, air traffic control service, change, 13642
 tactical information processing for displays, implications of Behavioral Science Research Laboratory research, 13668
 Military assistance, *see* Military aid.
 Military equipment, *see* Military supplies.
 Military indexes, Defense Department, specifications and standards, 14096-97
 Military facilities, agreement with Spain, 14910
 Military history:
 bibliography, 14519
 USAF historical studies series, 13636-637
 Military operations, *see* Military art and science.
 Military personnel, *see* Armed Forces.
 Military service, your military obligation, details, etc., 13683
 Military standards, *see* Standards and standardization.
 Military supplies:
 cataloging system, standardization, etc., semiannual report, 13919
 Defense Department—
 specifications and standards, index, 14096
 appendix, 14097
 standardization documents, classification listing, 14094
 letters of Trench Cox, Commissioner of Revenue, on procurement of military, naval and Indian supplies, 1794-96, pamphlet to accompany microcopy, 14657
 military items, definitions of levels, item exchangeability, models, and related terms, military standards, 14099
 overseas U.S. agencies, effectiveness in meeting supply requirements, GAO report, 14314
 preservation, packaging, packing, DSA manual, change, 14083
 Milk:
 cows on farms, June 1969, 14934
 production, monthly reports, 14931
 Milking Shorthorn cattle, *see* Cattle.
 Million, Louis N., staff study, 1980, metropolitan area airport capacity analysis, location—Atlanta, Ga., 13649
 Milonzi, Francesca A., relief, 13960
 MILSTRIP, military assistance program address directory, 14113-114
 Milton, John B., standard time and frequency, its generation, control, and dissemination from National Bureau of Standards Time and Frequency Division, 14672
 Mine safety, *see* Safety of life.
 Minerals:
 industries, census 1967, EC series, 13754-755
 industry, minerals yearbook chapter—
 Bolivia, 14537
 Burma, 14538
 Colombia, 14539
 Hungary, 14540
 Pakistan, 14541

INDEX

- Minerals—Continued
 industry—Continued
 Sierra Leone, 14542
 Taiwan, 14543
 magnetic separation of minerals of low susceptibility and small particle size, 14555
 pollution, problem in Colorado River Basin, general background, 14243
 resources—
 Blue Range primitive area, Greenlee County, Ariz., and Catron County, N. Mex., 14328
 San Juan primitive area, Colo., 14329
 valuation for public policy, 14530
 Miners, *see* Coal mines and mining.
 Mines and mining, Alaska-Northwest Canada, economic activities, comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
see also Hydraulic mine filling.
 Mines Bureau:
 coal-fired gas turbine research project, test of combustor and ash separators for open-cycle plant, 14558
 information circulars, 14529-531
 report of investigations, 14549-559
 Mining machinery, shipments, 1961-63, patterns of industrial growth, 13730
 Minnesota:
 census of business, 1967, retail trade, area statistics, 13742
 National Park Service, Minnesota Governor's book, 14706
 uranium reconnaissance, preliminary, 13709
 Minorities:
 education and economic advancement of minority groups in U.S. (remarks), 14227
 minority business enterprise directory, 13804
 Minority Business Enterprise Office, directory of private programs, 13804
 Minors, *see* Children.
 Mint, Philadelphia, dedication (remarks), 14951
 Mint Bureau, letters sent by Director of Mint at Philadelphia, 1795-1817, pamphlet to accompany microcopy, 14656
 Minutilla, Rose, relief, 13902
 MIRV (multiple independently targeted reentry vehicles), *see* Missiles.
 Miscellaneous publications, *see* names of departments, etc., issuing publications.
 Missiles:
 antiballistic, strategic and foreign policy implications of ABM defense systems, hearings, 14031
 antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV) strategic and foreign policy implications of ABM defense systems, hearings, 14034
 Industry, 1957-68 R & D, 14716
 Mississippi, uranium reconnaissance, preliminary, 13712
 Mississippi River and Valley:
 lead-zinc explorations, lead isotope guide, 14335
 upper basin, quality of surface waters, 14376
 Missouri:
 climate, 14162
 National Park Service, Missouri Governor's book, 14707
 uranium reconnaissance, preliminary, 13709
 Missouri River and Valley:
 surface water supply of basin, below Nebraska City, Nebr., 14375
 upper basin, quality of surface waters, 14376
 Missouri River Basin project:
 Alusworth unit, Nebr., Sandhills division, general information, 14824
 Kortes unit, operation, modification, report, 13995
 Yellowtail unit, general information, 14845
 Mobility, persons and families, Mar. 1969, selected characteristics, 13763
 Modified 59 Fe ferroknetic procedure, 13632
 Moisture, penetration and battery life of subdermally implanted devices, 13633
 Molecular structure, molecular orientation and mechanical anisotropy in polyethylene, polypropylene, and poly (ethylene terephthalate) films, 14628
 Molecules, ion-molecule collisions with long lived capture complexes, computer plotting description, 14645
 Molnar, Andrew R., Office of Education support of computer activities, 14145
 Molten cells, *see* Salts.
 Molybdenum, minerals yearbook chapter, 14545
 Monomers, radiation-induced polymerization and copolymerization of unusual monomers, 13717
 Money:
 banking and monetary statistics, 14225
 recent international financial and monetary developments, hearing, 13923
see also Paper money.
 Monitors (aeronautics):
 weld quality monitor, development, 14609
 Monkeys, squirrel monkey (*Saimiri sciureus*), cardiac output by thermidulation, repeated or continual measurements, 14496
 Montana:
 National Park Service, Montana Governor's book, 14708
 water resources data, 14366
 Montgomery County, Ill., soil survey report, 14877
 Moon:
 conference on electromagnetic exploration, report, 14596
 landing, commemorative air mail stamp ceremonies (remarks), 14772
 observations made with 6-inch transit circle 1956-62, correction to FK4, GC and N30, 14724
 10-cent moon landing commemorative air mail postage stamp (poster), 14769
see also subjects beginning Lunar.
 Moore, Billy J., helium, 14528
 Moore, Elbert C., relief, 13891
 Morality, *see* Ethics.
 Morgan, Charles W., oceanography of Grand Banks region of Newfoundland, 13801
 Morning, John L., molybdenum, 14545
 Mortality, *see* Death.
 Mortgage insurance:
 FHA—
 home, general information, 14387
 technically suitable manufactured housing, 14205
 mortgagees' handbook, home programs, FHA manual, revisions, 14207
 Mosio, Maria, relief, 13845, 13981
 Motion, ground motion and containment, analysis of data, Project Handcar, 13706
 Motion pictures:
 film guide on reproduction and development, 14687
 use of illustrations and motion-picture films and slides of paper money, postage and revenue stamps, and other obligations and securities of United States and foreign governments, 14851
 Motor carrier decisions, *see* Interstate Commerce Commission.
 Motor vehicle accidents, motor carriers, vehicle defects or mechanical failure, 1968 analysis, 14563
 Motor vehicles, *see* Vehicles.
 Motorists, rest area use study manual, 14819

- Motors, propulsion motor plume, estimating diameter of plasma, 14746
- Motortrucks, lift trucks, fork, platform, and pallet, Federal item identification guide, 14089
- Motivation (psychology) :
Step Test of motivation to excel, 14518
- Moving, *see* Transportation.
- Mount Baker National Forest, 1968 hemlock looper project, 14266
- Mount Rainier, geologic story, 14334
- Mt. St. Helens, Gifford Pinchot National Forest, general information, 14271
- Mounts, Jack, 1968 hemlock looper project, Mount Baker National Forest, 14266
- Mozambique, *see* Portuguese East Africa.
- MP series, 14393-396
- Mud Hills, Barstow formation, San Bernardino County, Calif., diagenesis of tuffs, 14351
- Muller, Charles H., supersonic compressor stage development, 13675
- Multiple independently targeted reentry vehicles, *see* Missiles.
- Municipal bonds, tax treatment, tax reform, press releases announcing tentative decisions, 13945
- Muskkrats, habitat needs, etc., 14867
- Mutter, H. B., remarks, Sept. 4, 1969, 14209
- Mutual defense, *see* Military aid.
- Mycoplasma, nongonococcal urethritis associated with, T strains, 14511
- Myers, Robert J. :
accrued cost of SMI program for 1966 and 1967, 14862
current experience of SMI program on cash basis, 14863
SMI benefit experience for 1966-68 as shown on payment records, 14861
- N**
- NAMI, *see* Naval Aerospace Medical Institute.
- Narcotics and Dangerous Drugs Bureau, bulletin, 14564
- NASA, *see* National Aeronautics and Space Administration.
- Natick Laboratories, Natick, Mass., technical reports, 13657
- National Academy of Sciences, Panel on Technology Assessment, report, 13941
- National Aeronautics and Space Administration :
Apollo program posters, 14566
contractor report CR (series), 14567-591
future space programs, hearings, 14011
NASA picture sets, 14592-594
SP series, 14595-14600
space flight investigations, opportunities for participation, 14653
special publications, list, 14601
technical notes, 14602-649
technical translations, 14650-652
- National Air Pollution Control Administration, publications, APTD series, 14797
- National Air Surveillance Networks, continuous air monitoring projects, 1964 data tabulations and summaries, Chicago, Cincinnati, Philadelphia, St. Louis, Washington, D.C., 14797
- National Airspace System Program Office, system package program NS-SPP series, 14190
- National and Regional Export Expansion Councils, helping American business to compete successfully in world markets—general information, 13806
- National archives :
genealogical records, 14654
microfilm publications, pamphlet accompanying, 14655-661
- National Archives and Records Service, general information leaflets, 14654
- National banks, foreign activities, Federal reserve regulation, 14232
- National Bureau of Standards :
frequency and time broadcast services, radio stations WWV, WWVH, WWVB, WWVL, errata, 14670
handbooks, 14663
monograph, 14665
national standard reference data series, 14666-667
special publications, 14670-671
technical notes, 14672-675
Time and Frequency Division, standard time and frequency, its generation, control, and dissemination, 14672
- National Capital, *see* Capital of United States.
- National Center for Health Statistics, vital and health statistics series, PIHS publication 1000, current listing, 14785
- National Communicable Disease Center, food-borne outbreaks, 1968 annual summary, 14798
- National Conference for Coordinating Rehabilitation and Education Services for the Deaf, proceedings, 14849
- National Consumer Information Foundation, establish, hearings, 14034
- National Corporation for Housing Partnerships, incorporator, nomination of Carter L. Burger, hearing, 14018
- National defense :
agreement with Spain, 14910
defense-related economic activity during 1969, 2d quarter (statement), 13809
special military operations handbook, change, 13642
student loan program, 1969-70 allocations of Federal funds, 14052
see also National Security
- National electric rate book, 14214-221
- National Endowment for the Humanities, senior fellowships, 1970-71, announcement poster, 14679
- National Environmental Satellite Center :
ESSA technical memorandum NESCTM series, 14163
ESSA technical report, NESCT series, 14171
- National forests :
Colorado, multiple use of resources, 14272
development road system, traffic regulation and law enforcement, 13602
Intermountain region, yearbook, national forests in profile, 14273
Wyoming, multiple use of resources, 14274
see also Wilderness areas—*also* names of forests.
- National Gallery of Art, history of art, 1968, report and studies, 14680
- National Grange, civil defense programs, 13782
- National Guard, Army, reemployment rights, briefing session and program, 13658
- National Heart Institute, national blood resource program, 14691
- National Institutes of Health :
publications list, quarterly, 14692
resources analysis memo, 14695
- National labor relations act, *see* Industrial relations.
- National Labor Relations Board, annual report, 14698
- National Materials Policy Commission, establish, proposal, 14061
- National Meteorological Center, operations, etc., 14176
- National Park Service :
historical handbook series, 14703
Iowa, Governor's book, 14705
Minnesota, Governor's book, 14706
Missouri, Governor's book, 14707
Montana, Governor's book, 14708
Nebraska, Governor's book, 14709
North Dakota, Governor's book, 14710
South Dakota, Governor's book, 14711

INDEX

- National parks, 1872-2000, public use of system, 14714
see also names of parks.
- National Plant Materials Center, Beltsville, Md., annual report, 14868
- National poultry improvement plan, *see* Poultry.
- National Reactor Testing Station, Idaho Falls, Idaho, injection of gas into lithosphere, 13696
- National Reclamation Association, directors, annual meeting, 14040
- National security:
 ABM defense systems, strategic and foreign policy, antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV), hearings, 14031
 air traffic control, Federal aviation regulations, 14186
 internal security act, amend, hearing, 14051
- National standard reference data series, 14666-667
- National System of Interstate and Defense Highways, route 52 in West Virginia, designate as part of, hearings, 13939
- National Transportation Safety Board:
 annual report, 14719
 general information, 14718
- Nationality:
 laws, administrative decisions, index, 14398
 nondiscrimination in public and private employment, equal employment opportunity under Federal law, guide, 13785
- Native races, native American arts (series), 14402
- Natural gas, *see* Gas.
- Natural resources:
 conservation in your life, services to educators, 14256
 mineral resource valuation for public policy, 14530
 resource planning in Wyoming, how soil surveys help, 14871
 resource publications (series), 14885
 westward Alaska, native economy and its resource base, 14201
- Navajo Indian irrigation project, act of June 13, 1962, amend, hearing, 14045
- Navajo Indian project, additional lands, acquire, report, 13992
- Navajo Reservation, road, construction and improvement, report, 14007
- Naval Aerospace Medical Institute, NAMI series, 14495-503
- Naval education:
 naval air training schools, optimal weighting of course grades, 14500
 naval flight officer student prediction system, expansion, 14499
- Naval Facilities Engineering Command:
 design manual, 14722
 NAVFAC Technical Training Center courses, 14723
- Naval Medical Field Research Laboratory, Camp LeJeune, N.C., report, 14504-514
- Naval Observatory, publications series, 14724
- Naval Oceanographic Office:
 informal report IR series, 14725
 publications series, 14726-736
- Naval Postgraduate School, Monterey, Calif., abstracts of dissertations, theses, and research papers submitted by candidates for degrees, 14737
- Naval Research Laboratory:
 annual report, 14741
 report series, 14742-755
- Naval Submarine Medical Center, reports, 14515-518
- Naval supplies, *see* Military supplies.
- Naval training, *see* Naval education.
- Navigation, dictionary, 14730
- Navy:
 dental administration, manual, change, 14739
 naval air training schools, optimal weighting of course grades, 14500
 naval flight officer student prediction system, expansion, 14499
 research, 45 years, 14741
- Navy Department:
 aircraft engine procurement, potential for savings by reduction, GAO report, 14324
 RDT & E management guide, 14758
- Near East, *see* East (Near East).
- Nebraska:
 census of business, 1967, retail trade, area statistics, 13743
 National Park Service, Nebraska Governor's book, 14709
 uranium reconnaissance, preliminary, 13710
 water resources data, 14367
- Nee, Peter M., relief, 13967
- Needle blight, *see* Leaf cast.
- Nehmer, Stanley, remarks, Sept. 16, 1969, 13807
- Neighborhood Youth Corps:
 Gary, Ind., program, effectiveness and administrative efficiency, GAO report, 14310
- Gila River Indian Reservation and Pinal County, Ariz., program, effectiveness and administrative efficiency, GAO report, 14311
- Kansas City, Mo., program, effectiveness and administrative efficiency, GAO report, 14312
- Maricopa County, emphasis on Phoenix, Ariz., program effectiveness and administrative efficiency, GAO report, 14313
- Neighborhoods, neighborhood facilities program, 14392
- Nematode worms, nematoda, parasite, subject catalogue, 13543
- Nephritis, *see* Pyelonephritis.
- NESC, *see* National Environmental Satellite Center.
- Neutron detectors, *see* Detectors.
- Neutrons, use of LiF detectors in neutron flux integrator, feasibility study, 13693
- Nevada:
 census of business, 1967, selected services, area statistics, 13757
 electric rate book, 14218
 Valley of Fire State Park land conveyance, report, 13991
- New Brunswick Laboratory, research progress report, 13698
- New education, promise and performance (address), 14140
- New Hanover County, N.C., Agricultural Stabilization and Conservation Service, annual report, 13575
- New Jersey:
 census of business, 1967, retail trade, area statistics, 13744
 water resources data, 14368
- New Mexico:
 electric rate book, 14219
 Indian lands, longer term leases for lands located outside Indian reservations, report, 14000
 northern, Precambrian elastic and pelitic rocks, gold investigations, 14332
 water resources data, 14369
- New Orleans, passenger lists of vessels arriving, 1820-1902, pamphlet to accompany microcopy, 14658
- New York City:
 economy, charting, 14468
 employment, unemployment, and living conditions, facts, 14474
 high-speed rail line, grade crossings, eliminate, hearings, 13939

- New York City—Continued
 job situation, facts, 14475-476
 job trends, facts, 14477
 multifamily housing construction, cost and time associated with, 14396
- New York State:
 census of business, 1967, retail trade, area statistics, 13745
 pollution of interstate waters of Lake Champlain and its tributary basin, conference proceedings, 14240
 water resources development by Army Corps of Engineers, 14154
- New Zealand, economic trends and their implications for United States, 14420
- Newborn, *see* Infants.
- Newfoundland, Grand Banks region, oceanography, 13801
- News releases, *see* names of departments, etc., issuing releases.
- Newton, John R., report on sea water desalination analytic procedures, 14404
- Nickel:
 alloys, in high velocity gas stream, oxidation and thermal fatigue cracking, 14624
 collector, and chloride vapor deposited tungsten emitter (110) thermionic converter with, characteristics, 14587
 solubility in liquid sodium of high oxide content, 14751
- NIH, *see* National Institutes of Health.
- Niobium carbide, electrical resistivity of hyperstoichiometric columbium carbide materials at elevated temperatures, 14553
- Nitrates, nitrate ion, dilute solution reactions, as applied to water reclamation, 14245
- Nitrogen:
 demand in U.S., statistical analysis, 14520
 minerals yearbook chapter, 14546
- Nitschke, Violet, relief, 13895
- Noise:
 attenuation—
 predicting, in acoustically treated ducts for turbofan engines, studies, 14570
 provided by flight helmets, manikin measurements, 14503
- Nominations, Air Force Reserve general officers, hearing, 14016
see also names of persons.
- Nonagricultural employment, *see* Employment.
- Noncitizens, *see* Aliens.
- Non-discrimination, *see* Race problems.
- Nonequilibrium gasdynamics, 14583
- Nongonococcal urethritis, *see* Urethritis.
- Nonmetals, minor, minerals yearbook chapter, 14544
- Nonprofit organizations:
 nonprofit sponsors of housing for lower income families, 14389
 tax-exempt foundations and charitable trusts, their impact on our economy, 13942
- North America, Pacific Coast, tidal current tables, 13798
- North American fauna, 14883
- North Carolina:
 census of business, 1967, retail trade, area statistics, 13746
 electric rate book, 14220
 uranium reconnaissance, preliminary, 13713
- North Cascades National Park, general information, 14712
- North central region, *see* Central States.
- North central States, *see* Central States.
- North Dakota:
 National Park Service, North Dakota Governor's book, 14710
 shelterbelts, major insect pests, abundance and distribution by climate and host age, 14289
 water resources data, 14370
- North Sea, lights and fog signals, list, 14729
- Northeast (U.S.):
 Northeast Corridor subregions socio-economic projections, 14945
- Northeast Corridor Transportation Project, research reports, bibliography, 14223
- Northern Utilization Research and Development Division, origin and purpose, research program, etc., general information, 13546
- Notes, *see* Treasury notes.
- Nova Scotia, sailing directions, change, 14727
- Nozzles, Mach 4.4 water-cooled conical nozzle, experimental and theoretical turbulent boundary layer development, 14625
- NTTC courses, 14723
- Nuclear defense design for architects and engineers, 13781
- Nuclear explosions:
 computer program to analyze dynamic response of high rise buildings, 13783
 seismic intensity data used to predict effects in various geologic settings, 14333
 underground nuclear detonations, offsite safety programs, technical discussions, 14699
- Nuclear explosives, *see* Atomic blasting.
- Nuclear power, *see* Atomic energy.
- Nuclear reactors, *see* Reactors (atomic).
- Nuclear science, nuclear education and research, conference on special topics, 13690
- Nuclear tests, *see* Nuclear explosions.
- Nuclear weapons, *see* Weapons.
- Numerical calculations, FORTRAN program for machine computation of group tables of finite groups, 14641
- Nursery schools, *see* Day care of children.
- Nurses and nursing:
 nursing careers in Federal service, 13789
 professional nurses, traineeship program, schools offering traineeships for full-time academic study, 14806
- Nursing, *see* Nurses and nursing.
- Nutrition:
 child nutrition and school food assistance, hearings, 14058
 Clinical Center dietetic manual for metabolic kitchen units, 14686
 nutrition and human needs, national survey, hearings, 14058
- Nutrition and Human Needs, Select Committee on, Senate, hearings, 14058
- Nuts, tree nuts, production, use, value, by States, 14935
- Nuts (machinery), *see* Bolts and nuts.
- Nybakken, G. H., laboratory experiments on reverted rubber friction, 14577
- Nye County, Nev., Amargosa Desert, Geological Survey tracer study, exploratory drilling, tracer well construction and testing, and preliminary findings, 14360
- Nylon, phenolic, chemical equilibrium of ablation materials, including condensed species, 14636

O

- OAR, *see* Aerospace Research Office.
- Obacz, Ryszard S., relief, 13964
- Obligations, *see* Contracts.
- Obscene matter, material sold or offered for sale to minors, exclude from U.S. mails and nonmailable, hearings, 13936
- Occupations:
 career development, selected references, 14379
 career opportunities
 Commerce Dept., auditing, 13803
 Customs Bureau, can you find it? 14074
 girls, expanding opportunities, their special counseling needs, 14969
 occupational outlook in late 1960's, facts, 14478
 occupational safety aid, OSA, LS series, 14446-450

INDEX

- Occupations—Continued
trends in sanitary services, warehouses,
and stockrooms in northern Illinois,
14466
see also names of occupations, industries,
etc.
- Ocean, upwind-downwind-crosswind sea-clut-
ter measurements, 14748
- Oceanography:
Grand Banks region of Newfoundland,
1967, report, 13801
oceanographic reports, 13801
upwind-downwind-crosswind sea-clutter
measurements, 14748
- Oceanography, Institute for, *see* Institute for
Oceanography.
- Ochoco National Forest:
Douglas-fir tussock moth control, 1965
surveillance, Burns project, 14295
general information, 14275
- Oden, Laurence L., preparing alkallized alum-
ina, 14557
- OECD, *see* Organization for Economic Coop-
eration and Development.
- Officer candidate schools, Quantico, Va.,
physical training platoon, evaluation,
14506
- Officers, *see* Armed Forces—*also* names of
services to which officers belong.
- Ohio:
census of business, 1967, retail trade, area
statistics, 13747
uranium reconnaissance, preliminary,
13709
- Oil, *see* Oils—Petroleum.
- Oils, oil mists from mechanical vacuum
pumps, control and reduction, glovebox
fire safety application, 13719
see also names of oils.
- Oklahoma:
Agricultural Stabilization and Conserva-
tion Service activity summary—
1st Congressional District, 13569
2d Congressional District, 13570
3d Congressional District, 13571
4th Congressional District, 13572
5th Congressional District, 13573
6th Congressional District, 13574
census of business, 1967, retail trade,
area statistics, 13748
electric rate book, 14221
uranium reconnaissance, preliminary,
13710
- Olympic National Forest, 1968 report, 14276
On batholiths and volcanoes, 14347
- Operation Deep Freeze, *see* Antarctic regions.
- Opinions, *see* names of courts, etc., rendering
opinions.
- Optical measurements, onboard, of ejected
probe or natural satellite, method of de-
riving orbital perturbing parameters,
14584
- Optimal weighting of course grades for 2
naval air training schools, 14500
- Oranges, genera, species, and subordinate
taxa in orange subfamily Aurantioideae
(Rutaceae), catalog, 13537
- Orbits:
manned earth orbiting missions, biotech-
nology laboratory, study—
results, recommendations, and require-
ments, 14580
summary of individual experiments re-
quirements, 14581
orbital perturbing parameters, method of
deriving, from onboard optical mea-
surements, of ejected probe or natural
satellite, 14584
- Orders, *see* subjects.
- Oregon:
Christmas tree directory for growers,
wholesalers, and retailers, 14254
national forests in Cascades, management
direction for wilderness and primary
recreation zones, 14269
- Ores, *see* names of metals or minerals.
- Organic compounds:
synthetic chemicals, production and sales—
elastomers, 14940
pigments, 14941
- Organization, *see* Planning.
- Organization for Economic Cooperation and
Development, general information, 14905
- Organizations, *see* International orga-
nizations.
- Organized crime, *see* Crime and criminals.
- Orientation, photo scale and orientation, ef-
fect of disparity on change detection,
13666
- Orr, Martha L., pantothenic acid, vitamin
B6 and vitamin B12 in foods, 13591
- Oscillations, liquid-rocket longitudinal oscil-
lation (pogo), prevent by use of simplified
analytical model in design of pump-inlet
accumulators, 14638
- Osmosis, reverse, 10,000 GPD, spiral module
pilot plant, San Diego, Calif., test, 14406
- Our need is so great, our objective so reason-
able, our resolve so determined (remarks),
13807
- Outer space:
Apollo—
"First manned lunar landing," color
prints, 14593
"Man on the moon," color print, 14594
conference on electromagnetic exploration
of moon, report, 14596
future NASA programs, hearing, 14011
NASA space art—
"Eyewitness to space," color prints,
14592
- Outpatient services, *see* Clinics.
- Oversea service, overseas U.S. agencies, ef-
fectiveness in meeting supply requirements,
GAO report, 14314
- Overseas Private Investment Corporation,
create, hearings, 13928
- Oversight of oil development activities in
Alaska, 14046
- Oxidation:
aqueous, of mild steel, study of hydrogen
evolution, 14750
oxidation and thermal fatigue cracking of
nickel- and cobalt-base alloys in high
velocity gas stream, 14624
- Oxides, *see* oxides by name, e.g., Carbon
dioxide.
- Oxygen:
acoustic-mode instability in hydrogen oxy-
gen rocket, effect of injection element
radial distribution and chamber geom-
etry, 14623
liquid oxygen/liquid hydrogen explosive
effects in controlled failure mode tests,
14629
- Ozark Air Lines, Inc., aircraft accident,
14717
- Ozarks region, Ozark gateway district, pre-
liminary economic analysis, 14124

P

- P.H.S., *see* Public Health Service.
- PA series, 13597-602
- Pacific Coast:
eastern, 1888-1966, halibut fishery, 13820
North America and Asia, tidal current
tables, 13798
- Pacific Islands Trust Territory, *see* Trust
Territory of Pacific Islands.
- Pacific Ocean:
central and western, tide tables, 13799
northwest, Loran-C table, pair SS3-Z,
14734
northwestern bathymetric atlas, 14736
south, Loran-A table, rate 2L2, 14732
- Pacific Oceanographic Laboratory, ESSA
technical report ERL-POL series, 14168-
169
- Packages, symbols for hazardous industrial
chemicals and materials, military stand-
ard, 14108

- Packaging, *see* Packages—Packing.
 Packers, *see* Packing industry.
 Packing:
 optimum, of hollow spheres in buoyancy materials, 14752
 preservation, packaging of military supplies and equipment, DSA manual, change, 14083
 Packing industry:
 packers and stockyards act—
 can help you recover losses, 13598
 what it is, how it operates, 13597
 Page, Louise, food and your weight, 13590
 Paint, fire-retardant system for nuclear submarine interiors, 14749
 Paintings, NASA space art—Eyewitness to space, color prints, 14592
 Pakistan:
 agricultural commodities, agreement, 14930
 background notes, 14892
 mineral industry, minerals yearbook chapter, 14541
 west, Indus Plains corrosion and encrustation mechanisms in tube wells, preliminary evaluation, 14343
 Paleobiology, Smithsonian contributions to paleobiology, 14859
 Palisades Reservoir, recreation map, 14280
 Pallet trucks, *see* Motortrucks.
 Palmer, Edward L., can television really teach? 14130
 Pamphlets, *see* names of departments, etc., issuing pamphlets.
 Panama Canal, Isthmian Canal demand forecast, economic analysis of potential tonnage traffic, 14944
 Panels and paneling, titanium skin-stringer panels, influence of various fabrication methods on compressive strength, 14634
 Pantothenic acid, *see* Vitamins.
 Paper:
 and related products, trade and tariff information summaries, 14939
 Government specification standard, 13947
 Paper money, use of illustrations and motion-picture films and slides, 14851
 Parachute jumping, *see* Parachuting.
 Parachutes, personnel, testing standard for, military standard, 14102
 Parachuting, parachute jumping, Federal aviation regulations, 14186
 Paraguay, agricultural commodities, agreement, 14912
 Parahydrogen, *see* Hydrogen.
 Parks, Project Skywater, special park range cooperative experiment, summary report, 14827
 see also National parks—*also* names of parks.
 Paralyzed Veterans of America, incorporate, 13864
 Parameters:
 orbital perturbing, method of deriving, from onboard optical measurements of ejected probe or natural satellite, 14584
 parameters to be controlled for specification of microcircuits, military standard, 14106
 Parasites:
 cotton insect, rearing in laboratory, 13605
 nematoda and acanthocephala, subject catalog, 13543
 subject catalogue, 13542, 13544
 Parasitology, medical and veterinary zoology, index-catalogue, 13543
 Parents, Children's Bureau publications for parents, list, 13776
 Parker, John G., zirconium and hafnium, 14562
 Parlett, Lysle P., wind-tunnel investigation of STOL aircraft configuration equipped with external-flow jet flap, 14617
 Particles, minerals of small particle size, magnetic separation, 14555
 Partners in the future, ships and ports, 14488
 Passenger vessels, *see* Ships.
 Passengers:
 passenger lists of vessels arriving at—
 Boston, 1848-91, index, pamphlet to accompany microcopy, 14659
 New Orleans, 1820-1902, pamphlet to accompany microcopy, 14658
 Patana, Raymond, rearing of cotton insects in laboratory, 13604
 Patents:
 classification manual, replacement pages, 14765
 plant, questions and answers frequently asked, 14766
 Pathfinder reactor, *see* Reactors (atomic).
 Patients, in mental hospitals, 1967, State and county, list, 14796
 Pattee, H. E., flame straightening and its effect on base metal properties, 14854
 Patterns of industrial growth (series), 13729-730
 Patton, David R., deer and elk use of ponderosa pine forest in Arizona before and after timber harvest, 14282
 Paulson, Danton L., electrical resistivity of hyperstoichiometric columbium and zirconium carbide materials at elevated temperatures, 14553
 Pavements, rigid and overlay design, Army airfield and heliport, technical manual, change, 13662
 Pay, *see* Salaries.
 Pay, allowances, etc.:
 plant movement, transfer and relocation allowances, major collective bargaining agreements, 14451
 State Department living quarters allowances, 14480
 Pay rolls, Federal agencies, principles and procedures, GAO guidance manual, 14302
 Payments, unauthorized, cessation of proficiency pay and variable reenlistment bonuses to candidates in officer training programs, Defense Department, GAO report, 14306
 Payrolls, *see* Pay rolls.
 Peace Corps, returning volunteers opportunities in Federal civil service, 13791
 Peat, minerals yearbook chapter, 14547
 Pedestrianism, *see* Walking.
 Pend Oreille River and Valley, Albeni Falls Dam, northern Idaho, general information, 14147
 Pender, William D., relief, 13877
 Pender County, N.C., Agricultural Stabilization and Conservation Service, annual report, 13575
 Penetration, battery life and moisture penetration of subdermally implanted devices, 13633
 Pennsylvania:
 Agricultural Stabilization and Conservation Service activity summary, congressional district summary, 13576
 census of business, 1967, retail trade, area statistics, 13749
 uranium reconnaissance, preliminary, 13711
 Pense, R. A., mineral industry of Taiwan, 14543
 Performance tests (human):
 officer performance, factorially derived information, measures for differential prediction, 13665
 Perishables, *see* Agricultural products.
 Perkins, Randall F., thinning program for Malheur National Forest, 14296
 Permian period, brachiopods from west Texas, 14859
 Perry County, Ind., soil survey report, 14878
 Persia, records of State Department, political relations with U.S. and other States, pamphlet to accompany microcopy, 14661
 Personal property, Defense Department, status report, 14115

INDEX

- Personality tests, stability of Edwards personal preference schedule need scale scores and profiles over 7-week interval, 14495
- Personnel administration, *see* Administrative management.
- Personnel management, *see* Administrative management.
- Personnel qualifications for medicare personnel, 14380
- Perspective, human deprivation, biological, psychological, and sociological influences, 14693
- Pesticides:
- Agriculture Dept. activities, 1968, progress report, 13606
 - registered agricultural chemicals, fungicides and nematocides, summary of uses, 13556
- Pestina says, help stop spread of plant pests, 13601
- Pests:
- control technology, basic, 14723
 - forest pest leaflets, 14263
 - major insect pests in North Dakota shelter-belts abundance and distribution by climate and host age, 14289
 - plant pests, help stop spread of, 13601
- Petkoff, Benjamin:
- diatomite, 14526
 - minor nonmetals, 14544
 - salt, 14560
- Petroff, C. P., basic development and applications of bubble chambers for low level counting, 13697
- Petroleum:
- Alaska-Northwest Canada, economic activities, comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
 - laboratory oil-recovery tests with ultrasonically formed emulsions, 14559
 - Laramie Petroleum Research Center, Wyo., general information, 14533
 - oil resources development activities on public lands in Alaska, Interior Department's manpower, funding requirements, and capability to oversee, hearing, 14046
- Petroleum refineries, United States and Puerto Rico, mineral industry survey, 14548
- Petty, Clayton, theories of mechanism of action of inhalation anesthetics, 13627
- Petty, Clifford L., relief, 13842, 13985
- Phenolic nylon, *see* Nylon.
- Philadelphia, Pa., data tabulations and summaries 1964, continuous air monitoring projects, National Air Surveillance Networks, 14797
- Phoenix, Ariz.:
- migrant and seasonal farmworkers program, effectiveness and administration, GAO report, 14309
 - Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14313
- Phosphate rock, *see* Rock phosphates.
- Phosphates, *see* Rock phosphates.
- Photo log, 1970 census, 13758
- Photodiodes, *see* Diodes.
- Photographs, catalog of copyright entries, 14068
- Photography, photo scale and orientation, effect of disparity on change detection, 13666
- Photons, cross sections, attenuation coefficients, and energy absorption coefficients from 10 keV to 100 GeV, 14667
- Photosynthesis, tree seedlings, assimilation chamber for outdoor measurements, 14285
- PHS, *see* Public Health Service.
- Physical education and training, physical training platoon, Officer Candidate School, Quantico, Va., evaluation, 14506
- Physical fitness:
- clinics, 14774
 - test, reevaluation, 14514
 - test standards for women marines, 14505
- Physics, *see* Radiophysics.
- PI series, 11771
- Picloram, soil-applied, for selective control of brush on chaparral watersheds, 14283
- Picnics:
- camping and picnicking in—
 - Eldorado National Forest, 14252
 - Tahoe National Forest, 14253
- Picture story series, 13603
- Pictures, NASA picture sets, 14592-594
- Pierre shale, *see* Shale.
- Piezoelectricity, piezodialysis research, 14405
- Pigments, synthetic organic, production and sales, 14941
- Piles and pile driving, steel piling in seawater, corrosion and protection of, 14149
- Piling, *see* Piles and pile driving.
- Pilot plants, reverse osmosis, San Diego, Calif., test, 14406
- Pilots and pilotage:
- certificated private pilot, study to determine flight profile and mission, 13646
 - fixed-base simulator pilot rating surveys for predicting lateral-directional handling qualities and pilot rating variability, 14615
 - see also* Aviators.
- Pinal County, Ariz., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14311
- Pine:
- lodgepole, timber, response of deer to alternate-strip clearcutting in Colorado, 14284
 - longleaf, brown-spot needle blight, 14263
 - ponderosa, forest, deer and elk use in Arizona before and after timber harvest, 14282
- Pins, Federal item identification guide, change, 14087
- Pipe lines, pipeline and compressor station construction under non-budget type of certificate authorizations as reported by pipeline companies in fiscal year 1968, cost, 14212
- Piqua power reactor, *see* Reactors (atomic).
- Pitch (motion):
- pitch of 1/4-scale model of 2- and 3-stage rocket configuration, aerodynamic characteristics, 14626
- Plaffer, George, effects of earthquake of Mar. 27, 1964, on various communities, 14346
- Planets, observations made with 6-inch transit circle 1956-62, correction to FK4, GC, and N30, 14724
- Plankton, five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska, 14860
- Planning:
- planning and administrative personnel in local government, pilot study, 14461
 - RDT & E management guide, Navy Dept. 14758
- Planning (programming), *see* Programming (planning).
- Plant pests, *see* Pests.
- Plants:
- patents, questions and answers frequently asked, 14766
 - plant pests, help stop spread of, 13601
 - quarantine import requirements—
 - France, 13547
 - French Guiana, 13548
 - Guadeloupe, 13549
 - Iran, 13550
 - Martinique, 13551
 - Réunion, 13552
- Plants (industrial):
- defense-oriented industries, shipments, 1967, current industrial reports, 13762

- Plants (industrial)—Continued
 inland desalting, disposal of brine effluents, review and bibliography, 14407
 movement, transfer, and relocation allowances, major collective bargaining agreements, 14451
see also Osmosis.
- Plasma, diameter of plasma in propulsion rocket plume, estimating, 14746
- Plastics:
 fluorocarbon in epoxy plastics, 14747
 surface chemistry reinforced by strong fibers, 14755
see also Laminated materials.
- Plates:
 coupled acousto-mechanical systems, transient response, 14588
 flat, submerged in turbulent boundary layer at Mach 2.49 and 4.44; flow-field measurements downstream of two protuberances, 14608
 use of small and large displacement data from essentially elastic buckling tests on columns and plates to correlate theory and experiment, 13673
- Platform trucks, *see* Motortrucks.
- Pleasant, Wylo, relief, 13900
- Pleasant Western Lumber Co., relief, 13900
- Pleasant's Logging & Milling, Inc., relief, 13900
- Plowshare program (civil, industrial and scientific uses for nuclear explosives):
 Project Buggy, preshot geologic and engineering properties, investigations, 13704
 report, 13706
 underground emplacement of nuclear explosives, construction techniques and costs, 13708
- Plowshare program (peaceful uses for nuclear explosives):
 report, 13705
- Plumes, *see* Jet plumes.
- Plunkett (U.S.S.):
 loan, extension, agreement with Republic of China, 14924
- Plymouth County, Mass. soil survey report, 14879
- Plywood, softwood, construction and industrial standard of trade, 14668-669
- Plzak, Vivian, further survey of compounds for radiation protection, 13629
- PMG series, 14066
- Poisons, *see* Food poisoning.
- POL, *see* Pacific Oceanographic Laboratory.
- Poland, fisheries, middle Atlantic Ocean, western region, agreement, 14915
- Political activities, *see* Politics.
- Politics:
 Alaska-Northwest Canada, regional, political, and communications aspects of development relations, 14195
 Rural Electrification Administration's bulletin inhibiting political activities by its borrowers and their employees, hearing, 13932
- Polizos, Nikolas, relief, 13968
- Pollution of water, *see* Water pollution.
- Polyethylene, films, molecular orientation and mechanical anisotropy, 14628
- Polyethylene terephthalate, films, molecular orientation and mechanical anisotropy, 14628
- Polymers and polymerization radiation-induced polymerization and copolymerization of unusual monomers, 13717
- Polypropylene, films, molecular orientation and mechanical anisotropy, 14628
- Pond, Floyd W., grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
- Ponderosa pine, *see* Pine.
- Ponds, management for trout, 14869
- Poor, nutrition and human needs, national survey, hearings, 14058
- Population:
 census, 1970—
 first count summary tapes, results, 13772
 second count summary tapes, results, 13771
 current population reports—
 consumer buying indicators, 13770
 consumer income, series, 13769
 population characteristics, series, 13763
 population estimates, series, 13765-768
 special studies, 13764
 States, estimates, 13768
 United States, estimates, 13765, 13767
 by age, race, and sex, advance report, 13766
- Pornography, *see* Obscene matter.
- Portraits, wildlife portrait series, 14889
- Ports:
 partners in the future, ships and ports (remarks), 14488
 port series, 14152
see also names of ports, or places where located.
- Portugal, atomic energy cooperation for civil uses, agreement, 14918-919
- Portuguese East Africa:
 Mozambique—
 background notes, 14894
 gazetteer, official standard names, 14327
- Postage stamps:
 commemorative—
 6-cent football (poster), 11767
 6-cent professional baseball (poster), 14768
 10-cent moon landing (poster), 14769
 use of illustrations and motion-picture films and slides, 14851
- Postal service, employees, salary and retirement annuity increases, 13938
see also International postal service.
- Posters:
 Apollo program, NASA, 14566
 Post Office Department, commemorative stamps, 14767-769
- Post Office and Civil Service Committee, House:
 committee prints, 13937-938
 hearings, 13935-936
 investigations and studies, authorization, report, 13909
 report, 13907
- Post Office and Civil Service Committee, Senate, hearing, 14059
- Post Office Department:
 posters, commemorative stamps, 14767-769
 public information service, PI series, 14771
 reorganization, proposals, hearings, 13935
- Potash, demand in U.S., statistical analysis, 14529
- Potatoes:
 Irish, utilization of 1968 crop with comparisons, 14933
 winter acreage marketing guides, 14063
- Potomac River and Valley:
 estuary at Washington, D.C., movement of solute at low inflow conditions, 14337
 Project Potomac, water quality sub-task force report, 14244
- Poultry:
 federally inspected plants, enforcement of sanitary, facility, and moisture requirements, Consumer and Marketing Service, GAO report, 14315
 national improvement plan, conference report, 13554
- Poverty:
 persons and families, Mar. 1969, selected characteristics, 13763
 revision in 1959-68 statistics, 13764
 rural, Farmers Home Administration program reduces it, 13600
 urban, facts relating to its dimension, 14472

INDEX

- Povinelli, Louis A., solid-propellant combustion instability and role of velocity coupling, 14639
- Powell, John Wesley, soldier, explorer, scientist, biographical sketch, 14342
- Power:
- transmission facilities, improved appearance, 14835
 - 1200 Hertz Brayton-cycle space-power system, using 14.3-kilovolt-ampere modified Lundell alternator, performance characteristics, 14643
- Power County, Idaho, records of observation wells and water-level fluctuation in Aberdeen-Springfield area, 14355
- Power plants, third, at Grand Coulee Dam, colossal generating units, 14828
- see also* Electric power plants.
- Pre-Cambrian period, elastic and pelitic rocks, southwestern Colorado and northern New Mexico, gold investigation, 14332
- Precipitation, *see* Hail.
- Prediction (psychology):
- naval flight officer student prediction system, expansion, 14498
 - prelude to school, evaluation of inner-city preschool program, 13778
- President of United States:
- election, amend U. S. Constitution, hearings, 13940
 - election, amend Constitution relating to electoral college reform, hearings, 14048
 - messages, *see* in main alphabet, subject of message.
- Pressure:
- compressibility data for helium at 0°C and pressures to 800 atmospheres, 14551
 - experimental distributions for family of blunt bodies at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15°, 14637
 - external, sandwich and ring-stiffened 120-degree conical shells subjected to structural optimization, 14589
 - gaseous-hydrogen pressurant requirements for discharge of liquid hydrogen from 3.96-meter-(13-ft.) diameter spherical tank, 14632
 - total-pressure loss and airflow distribution for annular gas turbine combustors, analysis, 14631
 - total-pressure loss and airflow distribution for annular gas turbine combustors, analysis, 14631
- Pressure transducers, *see* Transducers.
- Price, Bronson, library statistics of colleges and universities, data for individual institutions, 14138
- Price, Howard L., molecular orientation and mechanical anisotropy in polyethylene, polypropylene and poly (ethylene terephthalate) films, 14628
- Prices, food, and living costs, background material, 14471
- see also* names of commodities.
- Pride, Richard A., influence of various fabrication methods on compressive strength of titanium skin-stringer panels, 14634
- Primates, radioprotection, with 2-(1-decylamino) ethanethiosulfuric acid in dimethyl sulfoxide, 13628
- Primitive areas, *see* Wilderness areas.
- Printed matter, trade and tariff information summaries, 14939
- Prints, and pictorial illustrations, catalog of copyright entries, 14068
- Priest Lake, Kanikou National Forest, recreational area, 14268
- Prisons Bureau, basic data book, 14775
- Privacy, private programs for minority business enterprise, directory, 13804
- Private laws, *see* Law.
- Probes:
- ejected, or natural satellite, method of deriving orbital perturbing parameters
- Probes—Continued
- from onboard optical measurements, 14584
 - gamma probe calibration tests, 14833
- Procedures, *see* Administrative management.
- Procurement, *see* Air Force Department—Navy Department—*also* names of commodities procured.
- Production:
- foreign products available for production in U.S. under license agreements, 14424
 - research reports, 13604-605
 - research under marketing agreement and order programs, authorize, hearings, 13915
- Products, *see* Commercial products—*also* names of products.
- Professional papers, Geological Survey, 14345-353
- Program aid series, 13597-602
- Programming (computers), *see* Computer programs/programming.
- Programming (planning):
- offsite safety programs for underground nuclear detonations, technical discussions, 13699
 - planning-programming-budgting innovations in State and local governments, 13848
- Progress in sport fishery research, 14885
- Project Apollo (man-in-space program):
- Apollo—First manned lunar landing, color prints, 14593
 - Apollo—Man on the moon, color print, 14594
 - NASA posters, 14566
- Project Buggy (plowshare program):
- preshot geologic and engineering properties investigations, 13704
- Project Cabriolet (field cratering experiment):
- ecological and environmental effects from local fallout, 13707
- Project Dugout (plowshare program):
- seismic interference and reciprocity for HE row charge 13705
- Project Handcar (plowshare program):
- ground motion and containment, analysis of data, 13706
- Project Head Start, early childhood, bibliography, 14378
- Project Sealab (man-in-the-sea program):
- planned Sealab III habitat vicinity, submarine sediment investigation, 14725
- Project Skywater (atmospheric water resources program):
- Colorado River basin pilot project, scientific review plans and design, 14837
 - first 7 years, 14836
 - special park range cooperative experiment, summary report, 14827
- Project Surveyor (unmanned lunar exploration):
- Surveyor program results, 14597
- Prolate spheroids, *see* Spheroids.
- Promotions, airman, weighted promotion system, 13638
- Propagation, magnetospheric duct propagation research using Alouette-2 topside-sounder observations, 14612
- Propellants:
- expanding storable propellant-products simulated by combustion of gaseous reactants, experimental measurements, 14642
 - solid-propellant combustion instability and role of velocity coupling, 14639
 - solid, sampling, examination and testing, military standard, 14100
- Property, FHA improvement loans, dealer and contractor guide, 14388
- see also* Real estate.
- Prophylaxis pastes, *see* Dentifrices.

Propulsion:
 large-scale 1.075-pressure-ratio tip-turbine
 cruise-fan propulsion system—
 angle of attack, subsonic aerodynamic
 characteristics, 14611
 subsonic performance characteristics,
 14610
 motor plume, estimating diameter of
 plasma, 14746
 Protective compounds for personnel, military
 standard, 14104
 Protons, solar proton monitoring system,
 14170
 Psychological tests, *see* Personality tests.
 Psychometrics, stability of Edwards personal
 preference schedule need scale scores and
 profiles over 7-week interval, 14495
 Psychopharmacology, bulletin, 14801
 Psychotropic drugs, and related compounds,
 supplement, 14802
 Public assistance, welfare reform, proposals,
 message from the President, 13861
see also Social work and problems.
 Public comfort stations, rest area use study
 manual, 14819
 Public debt, Treasury Department circular,
 14946-948
 Public Documents Division, classified list of
 Government publications, 14777
 Public health, *see* Health.
 Public health schools, offering nurse train-
 eeships for full-time academic study, 14806
 Public Health Service:
 act, amend, hearings, 14054, 14057
 Analytical Reference Service studies, 14779
 cooperative studies, renal disease and hy-
 pertension, conferences, proceedings,
 14800
 Indian and Alaska native hospitals, con-
 tract hospitals, field health, annual sta-
 tistical review, 14780
 traineeship program, professional nurse
 full-time academic study, 14806
 Public information:
 Post Office Department, PI series, 14771
 utility companies, subject to utility con-
 sumers counsel act of 1969, hearings,
 14038
 Public lands, *see* names of States, etc., where
 lands are located.
 Public laws, *see* Law.
 Public libraries, *see* Libraries.
 Public policy, mineral resource valuation,
 14530
 Public property, national industrial reserve,
 Defense Department, annual report to
 Congress, 14080
 Public Roads Bureau:
 professional highway engineer, opportuni-
 ties, 14817
 skid resistance studies, 14820
 Public utilities, utility consumers' counsel
 act of 1969, hearings, 14038
 Public welfare:
 from welfare to wages, work incentive pro-
 gram, 14442
 role in housing, 14881
 Public works:
 appropriations, 1970, for water and power
 resources development, hearings, 13918
 economic development districts authorized
 under provisions of Public works and
 economic development act of 1965,
 status, 14117
 Public Works Committee, House, hearings,
 13939
 Public Works Committee, Senate:
 committee print, 14061
 hearings, 14060
 Publications, *see* names of departments, etc.,
 issuing publications—*also* subjects.
 Pueblo, Colo., northern part, general and en-
 gineering geology, 14330
 Pueblos, *see* Laguna Pueblo.

Puerto Ricans and labor market, facts, 14479
 Puerto Rico, petroleum refineries, mineral in-
 dustry survey, 14548
 Pumps, mechanical vacuum pumps, control
 and reduction of oil mists, glovebox fire
 safety application, 13719
 Purchasing, consumer buying indicators,
 series, 13770
 Pylonephritis, Public Health Service cooper-
 ative studies, conferences, proceedings,
 14800

Q

Quacks and quackery, cancer quacks, danger,
 14685
 Quarantine, *see* subjects.
 Quattlebaum, Charles, education and train-
 ing enactments, 14055
 Queja, Irene G., relief, 13868
 Quick, James E., fluorocarbon in epoxy
 plastics, 14747

R

R & D in aircraft and missiles industry,
 14716
 Race problems:
 discrimination in housing, progress toward
 solution of problems (address), 14384
 nondiscrimination in public and private
 employment, equal employment opportu-
 nity under Federal law, guide, 13785
 Radar:
 radar-equipped merchant ships, collisions,
 study, and preventive recommendations,
 14720
 upwind-downwind-crosswind sea-clutter
 measurements, 14748
 Radiant energy, energy absorption co-
 efficients, photon cross-sections, and at-
 tenuation coefficients from 10 keV to 100
 GeV, 14667
 Radiation:
 chemical stabilization of uranium tailings
 at Tuba City, Ariz., 14552
 doses and short-term effects on vegeta-
 tion from close-in fallout, 13707
 infrared spectral irradiance measurements
 in space environment simulator, 14604
 protection, past, present and future (re-
 marks), 13722
 radiation-induced polymerization and co-
 polymerization of unusual monomers,
 13717
see also Blackbody—Radioprotective
 agents—Thermal radiation.
 Radiation biology, *see* Radiobiology.
 Radiation chemistry, *see* Radiochemistry.
 Radiation doses, *see* Radiation.
 Radiation exposure, *see* Radiation—Radio-
 biology.
 Radio frequencies, NBS frequency and time
 broadcast services, radio stations WWV,
 WWVH, WWVB, WWVL, 14670
 Radio propagation, *see* Radio waves
 Radio stations, WWV, WWVH, WWVB,
 WWVL, NBS frequency and time broad-
 cast services, 14670
 Radio waves:
 computer routines for synthesizing ground
 backscatter from three-dimensional ray-
 sets, 14165
 ground wave propagation in normal and
 ionized atmosphere, 14166
 Radioactive waste disposal, chemical stabili-
 zation of uranium tailings at Tuba City,
 Ariz., 14552
 Radioactivity:
 bubble chambers for low level counting,
 basic development and applications,
 final report, 13697

INDEX

- Radioactivity—Continued
 fallout—
 Cabrilet, ecological and environmental effects, 13707
 Health and Safety Laboratory program, quarterly summary report, 13694
 appendix, 13695
 pebble bed chemical reactor system, development, phase 2 report, 13703
 Radiobiology:
 modified ⁶⁰Fe ferrokinetic procedure, 13632
 research project, Radiological Research Laboratory, Columbia University, annual report, 13700
 USSR periodical, translations, 13685
 Radiochemistry, compounds for radiation protection, survey, 13629
 Radiological Research Laboratory, Columbia University, annual report on research project, 13700
 Radiophysics, research project, Radiological Research Laboratory, Columbia University, annual report, 13700
 Radioprotective agents:
 compounds for radiation protection, survey, 13629
 radioprotection of primates with 2- (1-decylamino) ethanethiol sulfuric acid in dimethyl sulfoxide, 13628
 Radium:
 contamination in aircraft instrument repair facilities, evaluation, 14790
 water load, at selected gaging stations, 14371
 Rahn, Ruby A., river highway for trade, the Savannah, 14153
 Railroad crossings, grade crossings on high-speed rail line between Washington, D.C., New York City, and Boston, Mass., eliminate, hearings, 13939
 Railroad employees, hours of service act of 1907, amend to reduce 16-hour maximum limitation for certain employees, 13910
 Railroad Retirement Board:
 report, 1968—
 departmental edition, 14823
 document edition, 13855
 Railroads, grade crossings on high-speed rail line between Washington, D.C., New York City, and Boston, Mass., eliminate hearings, 13939
 Rails (birds):
 king rail, natural history, 14883
 Raleigh, Henry D., reactor safety, literature search, 13715
 Ramasastry, Jayaram, magnetospheric duct propagation research using Alouette-2 topside-sounder observations, 14612
 Ramey, James T.:
 remarks—
 July 28, 1969, 13722
 Sept. 11, 1969, 13725
 Ranano, Romeo de la Torre, relief, 13836
 Ranchers, *see* Stockmen.
 Randhawa, Jagir S., relief, 13866
 Range lands:
 Project Skywater, special park range cooperative experiment, 14827
 range ecology and management, 14278
 range environmental management, 14279
 Ranges (stoves), *see* Stoves.
 Rasch, Philip J.:
 evaluation of physical training platoon, Officer Candidate School, Quantico, Va., 14506
 reevaluation of physical fitness test, 14514
 serum uric acid levels and leadership in Marine Corps, 14508
 Rats:
 domestic, control, training guide, 14784
 liver slices, lactic acid production, effects of pH, CO₂, and buffering systems, 13631
 Ratts, James C., mineral resources of Blue Range primitive area, Greenlee County, Ariz., and Catron County, N. Mex., 14328
 Rawlins, Edward W., relief, 13988
 Ray, Dorothy J., graphic arts of Alaskan Eskimo, 14402
 Reactions (chemical), *see* Chemical reactions.
 Reactor fuel elements, fuel-element fission product leakage at NASA Plum Brook Reactor, causes, measurement and elimination, 14622
 Reactor safety, *see* Safety of life.
 Reactors (atomic):
 La Crosse boiling water reactor, hearings, 13847
 LMFBR, liquid metal fast breeder reactor, 1000 MWe follow-on study, task reports, 13886-689, 13691
 materials concerning Hallam, Elk River, Pathfinder, BONUS, and Piqua reactor projects, hearings, 13847
 NASA Plum Brook Reactor, causes, measurement, and elimination of fuel-element fission product leakage, 14622
 nuclear reactor facilities, summary of current seismic design practice, 13718
 nuclear reactors built, being built or planned in U.S., 13716
 radioactive pebble bed chemical reactor system, development, phase 2 report, 13703
 reactor safety, literature search, 13715
 sodium-cooled, performance evaluation of heat exchangers, 13721
 Reading, let's be practical about reading, 14137
 Reagents, inorganic salts and compounds, analyzed reagent and reagent grade, 14105
 Real estate:
 minimum property standards, multifamily housing, 14208
 real property, Defense Department, status report, 14115
 see also Farms.
 Real property, *see* Real estate.
 Realining regional boundaries of certain Federal agencies, 13931
 Reclamation Bureau:
 employees, relief, 13874
 equal opportunity, affirmative program of manpower utilization, 14832
 research report, 14839
 strain gages test programs, application, 14825
 water resources research, coordination with Agricultural Research Bureau, report of meeting, 14830
 Reclamation of land, private and public ownership, differentiation, Federal laws, acreage limitation amendments, hearing, 14039
 Records, *see* Medical records—names of departments, etc.—also subjects.
 Recreation:
 Alaska, and government policies, 14196
 Palladas Reservoir, map, 14280
 program leadership, suggested 2-year post high school curriculum, 14141
 sites, faucets, 14260
 Recreational areas and demonstration projects, Kanikou National Forest, Priest Lake, recreation area, 14268
 Red Dane cattle, *see* Cattle.
 Red Poll cattle, *see* Cattle.
 Red-shift, *see* Cosmology.
 Redevelopment (city planning, etc.):
 economic development districts authorized under provisions of Public works and economic development act of 1965, status, 14117
 housing and urban development legislation of 1969, hearings, 13922, 14017
 what is relocation all about, 14391
 Reemployment rights, *see* Veterans.
 Reentry vehicles, *see* Missiles—Spacecraft.

Registers:

Army—
 departmental edition, 13678-681
 document edition, 13851-854
Army Materiel Command, approved recurring reports, 13652
Registration, *see* subjects.
Regression (statistics):
 nonlinear regression problems, general computer program for solving, 14531
Regulations, *see* subjects.
Regulatory announcements, Sport Fisheries and Wildlife Bureau, 14884
Rehabilitation for the disabled:
 disabled people, help through rehabilitation, 14846
 opportunity, help for the mentally retarded, 14848
Reinforced plastics, *see* Plastics.
Reinhold, R. O., White River Lakes, Ark. and Mo., climatic summaries of resort areas, 14158
Religious, nondiscrimination in public and private employment, equal employment opportunity under Federal law, guide, 13785
Relocation, *see* Plants (industrial).
Relocation (housing), *see* Redevelopment (city planning, etc.).
Remedial reading, *see* Reading.
Renal diseases, *see* Kidneys
Reorganization of Government activities, *see* Government reorganization plans.
Repairing, *see* subjects.
Repas, David S., performance characteristics of 14.3-kilovolt-ampere modified Lundell alternator for 1200 Hertz Brayton-cycle space-power system, 14643
Reports, uniform system for all modes of transportation in reporting incidents and accidents involving shipment of hazardous materials, 14721
see also names of departments, etc., issuing reports.
Reproduction, and development, film guide, 14687
Reptiles, of public health significance, pictorial keys, 14799
Research:
 research and development, congressional concern, bibliography, 14035
see also names of departments, etc., doing research—*also* subjects.
Research and development reports, Atomic Energy Commission, 13685-721
Research notes, Forest Service, 14281-288
Research papers, Forest Service, 14289-291
Research reports:
 Air University, abstracts, 13617
 Children's Bureau, 13778
 Reclamation Bureau, 14839
Reserve Officers Training Corps, Army, program, where the leaders are, 13682
Reservoirs:
 on Bureau of Reclamation projects, statistical compilation, 14842
 stratified, mechanics of flow, in interest of water quality, 14156
Resistance, *see* Electric resistance.
Resolutions, *see* Law.
Resort areas, climatic summaries, 14158
Resource publications (series), 14885
Resources, *see* Natural resources.
Resources analysis memo, 14695
Responses (psychology):
 perspectives on human deprivation, biological, psychological, and sociological influences, 14693
 sixty-minute vigilance task with 100 scoreable responses, 14501
Rest area use study manual, 14819
Rester, D. H., experimental study of electron transmission and bremsstrahlung production, 14572

Retail trade, census of business, area statistics, 13733-753
see also names of commodities and industries.
Retirement, *see* Armed Forces—Civil service pensions.
Reunion, plant quarantine import requirements, 13552
Revenue, Federal revenue sharing with States, message from the President, 13863
see also names of articles, etc., from which revenue is derived.
Revenue Commissioner, letters of Tench Cox, 1794-96, on procurement of military, naval, and Indian supplies, pamphlet to accompany microcopy, 14657
Revenue stamps, use of illustrations and motion-picture films and slides, 14851
Rewards (prizes, etc.):
 associate degrees and other formal awards below baccalaureate in higher education, 14129
 suggestion award portion of incentive awards program, management, Army Dept., GAO report, 14320
Reynolds, Hudson G., aspen grove use by deer, elk, and cattle in southwestern coniferous forests, 14281
Rif factor, *see* Blood.
Rhoads, William A., ecological and environmental effects from local fallout from Cabriole, 13707
Rich, Edward P., landmarks in science, great rare books from USMA library collection, 14520
Richmond, Va., area wage survey, 14452
Riekus, George M., jr., development of aviation combat criterion, preliminary report, 14502
Rights (civil), *see* Civil rights.
Rights-of-way, *see* Roads and highways.
Rincon, N. Mex., ground water in Rincon Valley, shallow quality, 14354
Riots:
 campus disorders, extent of subversion, hearings, 14049
 campus riots and disorders, Oct. 1967-May 1969, staff study, 14037
 civil and criminal disorders, investigation, hearings, 14036
 colleges and universities, student disturbances act of 1969, hearing, 14051
River boats, *see* Steamships.
Rivers:
 discharge of streams and water quality, Lehigh River basin, Pa., 14374
 variations in low-water streambed elevations at selected stream-gaging stations in northwestern California, 14373
Roads and highways:
 balanced freeway design (paper), 14813
 Federal aid highway and highway safety programs, hearings, 13939
 highway beautification act of 1965 as amended, hearings, 13939
 highway planning technical report, 14814
 highway safety act of 1966, programs implementing requirements, review, oversight hearings, 14060
 highway safety literature, compilation, 14681
 highways and their environmental considerations, literature references, 14815
 highways, new developments in design, etc., newsbriefs, 14816
 legislation, 1969, hearings, 13939
 national forest development road system, traffic regulation and law enforcement, 13602
 National System of Interstate and Defense Highways, route 52 in West Virginia, designate as part, hearings, 13939
 Navajo Indian Reservation road, construction and improvement, report, 14007
 rest area use study manual, 14819

INDEX

- Roads and highways—Continued
 soil stabilization, engineering and design manual, 13661
 State and community highway safety funds for 1970, formula for apportionment, provide, oversight hearings, 14060
 structural systems in support of safety, 14821
 Tor-Shok reusable energy absorbing protective barrier, 14822
 Robbins, John R., Jr., soil survey, Perry County, Ind., 14878
 Robert A. Taft Water Research Center, report TWRC series, 14245
 Rock drilling, exploratory, tracer well construction and testing, and preliminary findings, Geological Survey tracer study, Amargosa Desert, Nye County, Nev., 14360
 Rock phosphates, demand in U.S., statistical analysis, 14529
 Rockets:
 hydrogen oxygen, effect on injection element radial distribution and chamber geometry on acoustic-mode instability, 14623
 liquid-rocket longitudinal oscillation (pogo), prevent by use of simplified analytical model in design of pump-inlet accumulators, 14638
 pitch of $\frac{1}{4}$ -scale model of 2- and 3-stage configuration, aerodynamic characteristics, 14626
 propulsion motor plume, estimating diameter of plasma, 14746
 unmanned, Federal aviation regulations, 14186
 Rockford, Ill., area wage survey, 14455
 Rocks, Precambrian elastic and pelitic, southwestern Colorado and northern New Mexico, gold investigations, 14332
 Rocky Mountain National Park, general information, 14715
 Rodenticides, act, administration deficiencies, hearings, 13930
 Rodents, rodent control, training guide (series), 14784
 Rogers, George W., Alaska-Northwest Canada economic activities, analysis of regional, political, and communications aspects of Alaska-Canada development relations, 14195
 Role of bottom-dwelling macrofauna in water pollution investigations, 14791
 Ronco, Frank:
 assimilation chamber for—
 measuring carbon dioxide exchange of tree seedlings in laboratory, 14286
 outdoor measurements of photosynthesis of tree seedlings, 14285
 Roofing, products, hail resistance, 14662
 Rose, Edwin, improved appearance of power transmission facilities, 14825
 Rosebud Reservation, Sioux Indian, tribal land, sale and exchange of isolated tracts, report, 13996
 Rosen, Ruben, relief, 13959
 Ross, William B., address, Aug. 19, 1969, 14282
 Ross Lake National Recreation Area, general information, 14712
 ROTC, *see* Reserve Officers Training Corps, Army.
 Rotors:
 full-scale rotor blade stopped in flight, aerodynamic and aeroelastic characteristics, 13676
 helicopter, method for analyzing aeroelastic stability in forward flight, 14568
 Rubber, reverted rubber friction, laboratory experiments, 14577
 Rules, *see* names of courts, commissions, etc., issuing rules—*also* subjects.
 Rules Committee, House:
 hearings, 13940
 reports, 13908-909
 Rumania, Hungarians in Rumania, bibliographical list, 13860
 Runway marker lights, *see* Markers.
 Runways (aeronautics):
 grooved runways, general-aviation pilot reactions and opinions on, 14591
 runway traction (paper), 13647
 Rural communities:
 Farmers Home Administration strengthens them, 13600
 Grange and civil defense programs, 13782
 Rural Electrification Administration:
 bulletin inhibiting political activities by its borrowers and their employees, hearing, 13932
 report, 14850
 Rural families, *see* Families.
 Russell, J. Thomas, bibliography of military history, selected annotated listing of reference sources in U.S. Military Academy Library, 14519
 Rutaceae, *see* Oranges.
- ## S
- Sachs, Murray B., speech intelligibility in stationary multipath channel, 14515
 Sacramento River, net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use of acoustic velocity meter for measurement, 14372
 Safety at sea, *see* Safety of life.
 Safety of life:
 be safe, be seen, let's shed some light on pedestrian safety, 14781
 collisions of radar-equipped merchant ships, study and preventive recommendations, 14720
 development of safety movement, history, 14449
 electrical facilities safe practices handbook, Air Force pamphlet, 13615
 elements of safety program, occupational safety aid, 14450
 Federal aid and highway safety programs, hearings, 13929
 glovebox fire safety application—
 fire resistant glove materials, evaluation, 13720
 mechanical vacuum pumps, control and reduction of oil mists, 13719
 good housekeeping for successful safety program, occupational safety aid, 14446
 highway safety—
 act of 1966, programs implementing requirements, review, oversight hearings, 14060
 literature, compilation, 14681
 structural systems in support, 14821
 Labor Dept. training programs, occupational safety aid, OSA LS series, 14446-450
 maritime safety data for shipyards, 14443-445
 mine safety, coal miners, improve working conditions, hearings, 14053
 offsite safety programs for underground nuclear detonations, technical discussions, 13699
 passenger vessels, disclosure of construction details, eliminate, hearing, 13934
 reactor safety, literature search, 13715
 safe lifting, 14447
 State and community highway safety funds for 1970, formula for apportionment, provide, oversight hearings, 14060
 supervisory responsibility for safety, 14448
 Tor-Shok reusable energy absorbing protective barrier, 14822
 Sailing directions:
 Africa, southwest coast, 14728
 British Columbia, change, 14726
 Nova Scotia, change, 14727
 Saimiri sciureus, *see* M. nkeys.

- St. Louis, Mo.:
 aircraft accident, 14717
 community action program, effectiveness and administration, GAO report, 14307
 data tabulations and summaries 1964, continuous air monitoring project, National Air Surveillance Networks, 14797
- St. Louis County, Mo., community action program, effectiveness and administration, GAO report, 14307
- Salaries:
 employee compensation, 1966, in private nonfarm economy, 14458
 Federal agencies, principles and procedures, GAO guidance manual, 14302
 Federal classified and postal employees, increases, 13938
 Federal employees pay comparability system act of 1969, summary and text of bill, 13937
see also Wages.
- Saline water, *see* Water.
- Salmon, adult pink, transplanting to Sashin Creek, Baranof Island, Alaska, and survival of their progeny, 13822
- Salt, minerals yearbook chapter, 14560
- Salts:
 inorganic, and compounds, analyzed reagent and reagent grade, 14105
 molten—
 electrochemistry, Gibbs free energies and excess free energies from equilibrium-type cells, 14666
 surface tension data of single melts, 14666
- Sampling, *see* names of substances or objects sampled.
- Sanano, Julieta de la Torre, relief, 13836
- San Antonio River and Valley:
 Calaveras Creek, Tex., compilation of hydrologic data of basin, 14333
 Escondido Creek, Tex., compilation of hydrologic data of basin, 14339
- San Bernardino County, Calif., Barstow formation, Mud Hills, diagenesis of tuffs, 14351
- San Bernardino National Forest, public campgrounds, general information, 14277
- San Diego, Calif., test of 10,000 GPD reverse osmosis spiral module pilot plant, 14406
- Sandstone, Fox Hills sandstone, lower part, north-central South Dakota, foraminifera and stratigraphy, 14348
- Sanitation:
 poultry plants, federally inspected, enforcement of sanitary, facility, and moisture requirements, Consumer and Marketing Service, GAO report, 14315
 sanitary services, northern Illinois, occupational trends, 14466
- San Joaquin River, net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use of acoustic velocity meter for measurement, 14372
- San Juan, Colo., primitive area, mineral resources, 14329
- Saroff, Jerome R., Alaska recreation and government policies, 14196
- Sashin Creek, transplanting adult pink salmon and survival of their progeny, Baranof Island, Alaska, 13822
- Satellites:
 Alouette-2 topside-sounder observations, magnetospheric duct propagation research, 14612
 artificial earth satellites, observations, 14557
 class of partially flexible spinning satellites, attitude stability, 14606
 communication, evolutionary process, international applications (address), 14937
 natural, or ejected probes, method of deriving orbital perturbing parameters from onboard optical measurements, 14554
- Savannah River:
 highway for trade, steamboats, canoes, etc., operating during 19th century, 14153
 water quality studies, Federal-State-Industry cooperative, report, 14804
- Savings accounts, *see* Banks and banking.
- Sawflies, *see* Flies.
- Scales (measures):
 photo scale and orientation, effect of disparity on change detection, 13666
- Scales (weighing instruments):
 weighing and measuring devices, specifications, etc., replacement pages, 14663
- Scaling (psychology), *see* Psychometrics.
- Schaal, Lawrence A., climates of States, Illinois, 14160
- Schmalz, Bruce L., Injection of gas into lithosphere at National Reactor Testing Station, 13696
- Scholarships, health professions program, career information, 14689
- School buildings, federally affected areas, construction assistance, 1968 annual report, 14127-128
- School children, *see* Children.
- School lunches, child nutrition and school food assistance, hearings, 14058
- School of Aerospace Medicine:
 aeromedical reviews, 13627
 technical reports, 13628-633
- Schools:
 American, 1970-71 foreign curriculum consultant program, 14135
 children from the Deep South, a cry for help, 14120
 European area school system for overseas dependents, Defense Dept., GAO report, 14323
 federally affected areas, operation assistance, 1968 annual report, 14127-128
 making it, stay ahead, stay in school, 14773
 naval air training, optimal weighting of course grades, 14500
 prelude to school, evaluation of inner city preschool program, 13778
- Schroeder, Harold J., bismuth, 14524
- Schubert, Gilbert H., here's how, guide to tree planting in Southwest, 14291
- Schumaker, Richard L., relief, 13875
- Science:
 ESSA Research Laboratories publications, list, 14177
 Institutes for Environmental Research publications, list, 14173
 landmarks, great rare books from USMA library collection, 14520
 significant accomplishments in science, 1968, Goddard Space Flight Center, proceedings of symposium, 14598
 technology and the citizen (remarks), 13723
- Science and Astronautics Committee, House, committee print, 13941
- Scientific apparatus and instruments, import trends, 1958-67, analysis, 13731
- Scientific research, careers, Agricultural Research Service, 13595
- Scientists:
 America's, characteristics, 1960 and 1962 postcensal survey, 13775
 job market, 14146
 scientists from other countries, international opportunities provided by U.S. Geological Survey, 14341
- SCLC, *see* Southern Christian Leadership Conference.
- Seola, Francis P., self-preparation stannous fluoride prophylactic technique in preventive dentistry, 14516
- Scott, Glenn R., general and engineering geology of northern part of Pueblo, Colo., 14330

INDEX

- Scripps Institution of Oceanography, La Jolla, Calif., digital data logger STD tapes, processing, 13823
- Scupper drain attachments to vessels in dry-dock, 14444
- SDIL, *see* Space Disturbances Laboratory.
- Sea, *see* Ocean.
- Sea water:
- continuous counter-current ion exchange removal of calcium to prevent scaling of distillation equipment, errata, 14403
 - conversion, Wrightville Beach Test Facility, 14408
 - desalination, analytical procedures, report, 14404
 - desalted water for irrigation, value, study, 14843
 - large prototype desalting plant in Israel, U.S. participation in development, hearings, 13928
 - measurement of fluoride activity and concentration, using lanthanum fluoride electrode, 14753
 - sixteen years' exposure of structural ferrous metals in tropical environments, 14744
 - steel piling in seawater, corrosion and protection, 14149
- Seaborg, Glenn T., remarks, Sept. 17, 1969, 13723
- Sealab Project, *see* Project Sealab (man-in-the-sea program).
- Sealing, viscous, isothermal compressible flow across sealing dam with small tilt angle, computer program, 14621
- Seals and glands:
- isothermal compressible flow across rotating sealing dam, analysis, 14614
 - lubricated lip seal designs at peripheral velocity of 120 feet per second, torque and leakage rates, 14647
- Seasonal labor, migrant and seasonal farm-workers program in Phoenix, Ariz., effectiveness and administration, GAO report, 14309
- Seawater, *see* Sea water.
- Secondary education, elementary and secondary education act, program guides, nos. 44 and 45-A, 14144
- Secretary of Senate, *see* Senate.
- Securities:
- foreign, interest equalization tax act, extend, hearing, 14025
 - United States and foreign, use of illustrations and motion-picture films, and slides, 14851
- Security, *see* National security.
- Sedimentation and deposition:
- sedimentation activities, 1967, notes, 14151
 - submarine sediment investigation in vicinity of planned Sealab III habitat, 14725
- Seedlings:
- tree, assimilation chamber for—measuring in laboratory, carbon dioxide exchange, 14286
 - outdoor measurements of photosynthesis, 14285
- Seeds, Federal seed act, amend, hearing, 13913
- Seedskaadee National Wildlife Refuge, master plan, backup volume, 14886
- Seepage, asphaltic membranes for water seepage control, 14826
- Segal, Dorothy B., index-catalogue of medical and veterinary zoology, 13542-544
- Seismology:
- current seismic design practice for nuclear reactor facilities, summary, 13718
 - seismic intensity data used to predict effects of earthquakes and underground nuclear explosions in various geologic settings, 14333
 - seismic interference and reciprocity for HE row charge, Project Dugout, 13705
- Self-Service System, semiannual report, 14852
- Self-preparation stannous fluoride prophylactic in preventive dentistry, 14516
- Sells, S. B., definition and measurement of mental health, 14786
- Semiconductors, devices standards, lists, 14101
- Senate, Secretary, report, 13948
- Senate documents, 13948-949
- Senate reports:
- private bills, 13950-989
 - public bills, 13990-14010
- Sensitivity, function of bias and geometry, in microwave photodiodes, 14754
- Sensory deprivation, perspectives on human deprivation, biological, psychological, and sociological influences, 14693
- Separators, test of combustor and ash separators for open-cycle plant, Mines Bureau coal-fired gas turbine research project, 14558
- see also* Magnetic separators.
- Serial set (congressional), 13830-832
- Serology, fluorescent antibody and associated findings in treating TRIC Agent urethritis, report, 14517
- Serum and serumtherapy:
- serum enzyme changes after physical exertion, 14504
 - uric acid levels and leadership in Marine Corps, 14508
- Service trades, census of business, 1963, area statistics, 13756-757
- Servicemen, *see* Armed Forces—Mechanics (persons).
- Servo systems, *see* Servomechanisms.
- Servomechanisms, fast response (150 to 200 Hz) electrohydraulic servos dynamic performance limitations, analysis, 14633
- Sewage, water and waste disposal loans to associations, provide flexible interest rates, hearing, 13911
- Sextants, sighting performance, effects of differing amounts of training and of monochromatic targets, 14605
- Shale, Pierre shale, upper part, north-central South Dakota, foraminifers and stratigraphy, 14348
- Shanklin, Edward H., spinning performance and yarn quality as affected by lint color and trash in field-exposed cotton, 1966-67 crop year, 13594
- Sheep:
- common liver fluke, general information, 13593
 - housing and equipment, 13586
- Shekarchi, E., mineral industry of Sierra Leone, 14542
- Shellfish, Maine landings, 13814
- Shells (aircraft):
- applicability of Southwell plot to interpretation of test data from instability studies of shell bodies, 13674
 - unreinforced circular cylindrical, in axial compression, effect of test machine extensional rigidity on initial buckling load for, 13670
- Shells (structural):
- sandwich and ring-stiffened 120 degree conical, subjected to external pressure, structural optimization, 14589
- Shelter belts, North Dakota, major insect pests, distribution and abundance by climate and hostage, 14289
- Shelters, *see* Housing.
- Shepard, Maurice C., nongonococcal urethritis associated with T strains of mycoplasma, 14511
- Sheppard, Richard A., diagenesis of tuffs in Barstow formation, Mud Hills, San Bernardino County, Calif., 14351
- Sherfey, Lester E., soil survey, McPherson County, Nebr., 14876
- Sherman, Windsor L., red-shift-magnitude relation and observational data, 14640

- Shielding, transport of gamma rays through slab shields, experimental and theoretical studies, 13692
- Ship Structure Committee, serial no. SSC, 14854
- Shipbuilding, flame straightening, effect on base metal properties 14854
- Shipments, defense-oriented industries, current industrial reports, 13762
see also names of articles shipped.
- Shippers, unordered merchandise, shipper's obligations and consumer's rights, 14238
- Shipping, *see* Transportation.
- Ships:
- containerships under construction and on order (including conversions) in United States and foreign shipyards—
 June 30, 1968, list, 14485
 Dec. 31, 1968, list, 14486
 - flag containerships and flag ships with partial capacities for containers and/or vehicles, U.S. list, 14493-494
 - loan, extension, agreement with Spain, 14911
 - oceangoing merchant ships, of 1,000 tons and over—
 foreign flag type owned by United States parent companies, Dec. 31, 1967, list, 14489-490
 - lost and scrapped during 1968, list, 14491-492
 - partners in the future, ships and ports (remarks), 14488
 - passenger lists of vessels arriving at—
 Boston, 1848-91, index, pamphlet to accompany microcopy, 14659
 New Orleans, 1820-1902, pamphlet to accompany microcopy, 14658
 - passenger vessel legislation, hearing, 13934
 - passenger vessels safety standards, disclosure of construction details, eliminate, hearing, 13934
 - radar-equipped merchant ships, collisions, study, and preventive recommendations, 14720
 - scupper drain attachments to vessels in drydock, maritime safety data, 14444
see also Shipbuilding—Steamships.
- Ships (construction), *see* Shipbuilding.
- Shipyards:
- fire and explosion hazards, 14445
 - safety data, maritime, 14443-445
- Shock (mechanical):
- standoff distances and supersonic aerodynamic characteristics for large-angle cones with and without cylindrical afterbodies, 14613
- Shock tubes, experiments on snow, 13653
- Shultz, George P., address, Aug. 19, 1969, 14438
- Sierra Leone:
- economic trends and their implications for United States, 14421
 - mineral industry, minerals yearbook chapter, 14542
- Sights (ordnance):
- sextant sighting performance and effects of differing amounts of training and of monochromatic targets, 14605
- Silicon, electron detectors, tables of response functions, 14673
- Silvani, Sonia S., relief, 13889
- Silver, single crystals, dislocation pipe diffusion, 14745
- Simmons, Samuel J., address, Aug. 18, 1969, 14384
- Simulation, expanding storable-propellant products simulated by combustion of gaseous reactants, experimental measurements, 14642
- Simulators:
- fixed-base pilot rating surveys for predicting lateral directional handling qualities and pilot rating variability, 14615
- Simulators—Continued
- six-degrees-of-freedom motion simulator for VTOL hovering tasks, 14630
 - space environment simulator, infrared spectral irradiance measurements, errata, 14604
- Sioux Indians:
- Cheyenne River Tribe, lands, hold in trust, report, 14005
 - Rosbud Tribe, sale and exchange of tracts of isolated land, report, 13996
 - Standing Rock tribe, lands, hold in trust, report, 13998
- Sires, *see* Bulls.
- Sisco, H. G., records of observation wells and water-level fluctuations in Aberdeen-Springfield area, Bingham and Power Counties, Idaho, 14355
- Sites, embassy, agreement with Union of Soviet Socialist Republics, 14907
- Skid resistance studies by Bureau of Public Roads, 14820
- Skin, percutaneous introduction of cardiac catheters, simple method, 14497
- Skywater project, *see* Project Skywater (atmospheric water resources program).
- Slabs, transport of gamma rays through slab shields, experimental and theoretical studies, 13692
- Slag, slag-iron and steel, minerals yearbook chapter, 14561
- Slaughtering, beef on farm, 13585
- Slip laws, *see* Law.
- Slurries, materials handling research, hydraulic transportation of coarse solids, 14549
- Small business, *see* Business.
- Small Business Administration:
- impact of crime on small business, hearings, 14062
 - legislation for 1969, report, 13994
 - loan guarantees, clarify authorization, report, 13993
- Small Business, Select Committee on, House, committee print, 13942
- Small Business, Select Committee on, Senate, hearings, 14062
- Smallfly smiles, guide for teaching dental health in community care programs, 14696
- SMI (supplementary medical insurance), *see* Health insurance.
- Smilko, Anthony, relief, 13843, 13984
- Smith, Aaron, studies on effectiveness of antidepressant drugs, 14801
- Smith, Carl B., let's be practical about reading, 14137
- Smith, Dixie R., in vitro digestibility of alpine forages in Wyoming, 14288
- Smith, J. B. and wife, sand and gravel conveyance, 13975
- Smith, James L., shock tube experiments on snow, 13653
- Smith, S. H., study of hydrogen evolution during aqueous oxidation of mild steel, 14750
- Smith, Strether, capacitive measurement system for nondestructive testing of fiber glass reinforced plastic laminates, 13671
- Smith, William L., improvement of clear column radiance determination with supplementary 3.8u window channel, 14163
- Smith, Winchell, feasibility study of use of acoustic velocity meter for measurement of net outflow from Sacramento-San Joaquin delta in Calif., 14372
- Smithsonian Institution:
- contributions to—
 paleobiology, 14859
 zoology, 14860
- Smoking, smoker's self-testing kit, tests and interpretation of test scores, 14807
- Snails, military importance of Mediterranean snail complex, conference proceedings, 14509
- Snake River and Valley, fish passage report, Ice Harbor Dam, 14148

INDEX

- Snakes, envenomation, cryotherapy treatment, 14507
- Snipes, hunting, possession, transportation, and/or importation, 1969-70, in United States, etc., Federal regulations governing, 14884
- Snitko, Joseph A., relief, 13962
- Snoqualmie National Forest, 1968 report, 14292
- Snow:
 shock tube experiments on snow, 13653
 on ground, classification outline, 14290
- Sobln, Irving M., Chemical Co., Inc., relief, 13905
- Sobln, Irving M., Co. Inc. relief, 13905
- Social security, social security for the aged, international, perspectives, working paper prepared for hearing, 14013
- Social Security Administration, actuarial notes, 14861-863
- Social service, *see* Social work and problems.
- Social work and problems:
 biological, psychological, and sociological perspectives on human deprivation, 14693
 social services, statistical report, 14676
- Socio-economic projections for subregions of Northeast Corridor, title, 14945
- Sociologists, supply and demand in educational institutions and other settings, 14808
- Sodium:
 cooled reactors performance evaluation of heat exchangers, 13721
 Liquid, of high oxide content, solubility of nickel, 14751
- Soft drinks, mixes, effect on germicidal properties of iodine tablets, 14510
- Softwoods, plywood, construction and industrial, standard of trade, 14668-669
- Soil conservation:
 districts, status of organization, by States, etc., 14872
 Texas, 14873
- Soil Conservation Service:
 engineers in SCS, 13596
 technical releases, 14880
- Soils:
 Idaho's soil surveys, soils and people, what they can do for you, 14866
 soil survey reports—
 Gallatin County, Ill., 14874
 Lake County, Tenn., 14875
 McPherson County, Nebr., 14876
 Montgomery County, Ill., 14877
 Perry County, Ind., 14878
 Plymouth County, Mass., 14879
 sprinkler irrigation, soils, climate, and land classification, 14841
 resource planning in Wyoming, how soil surveys help, 14871
 soil as an engineering material, 14839
 stabilization for roads and streets, engineering and design manual, 13661
- Sokitch, Miloye M., relief, 13879
- Solar cycles, fBEs for solar cycle minimum, numerical maps, 14167
- Solid propellants, *see* Propellants.
- Solid wastes, *see* Waste products.
- Solids, solid reductants, metallization of iron ores, 14554
- Solubility, nickel in liquid sodium of high oxide content, 14751
- Solutes, movement in Potomac River estuary at Washington, D.C., at low inflow conditions, 14337
- Sommerfeld, R. A., classification outline for snow on ground, 14290
- Soriano, Frank S., records of Dept. of State on political relations between U.S. and Persia, and between Persia and other States, 14661
- Soucie, William G., effects of pH, CO₂ and buffering systems on lactic acid production in rat liver slices, 13631
- Sound:
 BCF acoustical workshop, proceedings, 13821
 coupled acousto-mechanical systems, transient response, 14588
 speech intelligibility in stationary multipath channel, 14515
 ultrasonically formed emulsions, laboratory oil recovery tests with, 14559
- South Asia, *see* Asia.
- South Atlantic States, *see* Atlantic States.
- South Carolina:
 Agricultural Stabilization and Conservation Service, annual congressional district summary—
 1st Congressional District, 13577
 2d Congressional District, 13578
 3d Congressional District, 13579
 4th Congressional District, 13580
 5th Congressional District, 13581
 6th Congressional District, 13582
 uranium reconnaissance, preliminary 13713
- South Dakota:
 National Park Service, South Dakota Governor's book, 14711
 Pacific Southwest, land and water resources, comprehensive framework study program, 14764
 north-central, foraminifera and stratigraphy of upper part of Pierre Shale and lower part of Fox Hills sandstone, 14348
- Southeast Asia, *see* Asia.
- Southern Christian Leadership Conference, testimony, nutrition and human needs, hearings, 14058
- Southern Utah Valley, selected hydrologic data, 14361
- Southwell, C. R., corrosion of metals in tropical environments, structural ferrous metals, 16 years' exposure to sea and fresh water, 14744
- Southwest (U.S.):
 coniferous forests, aspen grove use by deer, elk, and cattle, 14281
 here's how, guide to tree planting, 14291
- Soviet Union, *see* Union of Soviet Socialist Republics.
- SP series, *see* MA SP series—National Aeronautics and Space Administration SP series.
- Space, *see* Outer space.
- Space capsules, *see* Spacecraft.
- Space Disturbances Laboratory, ESSA technical report, ERL-SDL series, 14170
- Space environment, *see* Environment.
- Space flight, *see* Astronautics.
- Space missions:
 manned earth orbiting missions, biotechnology laboratory for study—
 results, recommendations and requirements, 14580
 summary of individual experiments, requirements, 14581
- Spacecraft:
 aerospace, turbulent wind field below 150M altitude at Eastern Test Range, investigation, 14582
- Apollo—First manned lunar landing, color prints, 14593
- Apollo—Man on the moon, color print, 14594
- launch vehicles—
 computing program for axial distribution of aerodynamic normal-force characteristics, errata, 14602
 longitudinal mass-spring modeling, 14620
- Mars entry capsule, evaluation of configuration changes on optimum structural designs, 14585

Spacecraft—Continued

- NASA space art—Eyewitness to space, color prints, 14592
- reentry vehicles, aerodynamic effects of bulbous bases, 14569

Spain:

- economic cooperation, agreement, 14909
- loan of vessels, extension, agreement, 14911
- tracking station, extension, agreement, 14916

- use of military facilities, agreement, 14910
- Spangler, B. D., failure of floor tile systems, investigation, 14204

- Spanish Sahara, *see* Spanish West Africa.
- Spanish-United States Economic Committee, establish, agreement, 14909

- Spanish War Veterans, *see* United Spanish War Veterans.

- Spanish West Africa, gazetteer, official standard names, 14326

- Specifications, *see* Government supplies—also names of departments, etc., issuing specifications.

- Spectacles, industrial, military standard, 14110

Spectra:

- infrared spectral irradiance measurements in space environment simulator, errata, 14604

- speech intelligibility, effects of spectrum sampling on, 13667

- Spectral analysis, prototype study, 14840

- Spectrometry, mass, residual gas analysis during vacuum melting, 14556

- Spectrum, *see* Spectra.

Speech:

Intelligibility—

- effects of spectrum sampling on, 13667
- in stationary multipath channel, 14515
- naval aviator's speech discrimination test, relationship to pure tone audiogram, 14498

- Spheres, hollow, optimum packing, in buoyancy materials, 14752

- Spheroids, tables of eigenvalues of wave equation in prolate spheroidal coordinates, 14743

- Spicules, chromospheric, observations in H and He I 3888.65 Å lines, 14858

- Spinning, performance and yarn quality as affected by lint color and trash in field-exposed cotton, 1966-67 crop year, 13594

- Spirit Lake, Gifford Pinchot National Forest, general information, 14271

- Sporadic E, *see* Ionosphere.

- Sport fisheries, *see* Fish and fisheries.

- Sport Fisheries and Wildlife Bureau: regulatory announcements, 14884
- resource publication (series), 14885
- special scientific reports, wildlife series, 14887

- Springfield, Idaho, records of observation wells and water level fluctuations, 14355

- Sprinkler irrigation, *see* Irrigation.

- Spruce, fir timber, response of deer to alternate-strip clearcutting in Colorado, 14284

- Squirrel monkey, *see* Monkeys.

Stability:

- acoustic-mode instability in hydrogen oxygen rocket, effect of injection element radial distribution and chamber geometry, 14623

- mechanisms with elastic couplings, 14650
- solid-propellant combustion instability and role of velocity coupling, 14639

- stability of Edwards personal preference schedule, need scale scores and profiles over 7-week interval, 14495

Stability of aircraft:

- aeroelastic, helicopter rotor in forward flight, method for analyzing, 14568

- applicability of Southwell plot to interpretation of test data from instability studies of shell bodies, 13674

Stability of aircraft—Continued

- lateral-directional stability characteristics of twin-jet fighter airplane at high angles of attack, analysis, 14616

- static and dynamic stability derivatives of jet transport model equipped with external-flow jet-augmented flaps, 14646

- V/STOL, ducted-propeller model at high duct incidence, quad configuration, longitudinal stability characteristics, 13669

- Stability of spacecraft, attitude stability of class of partially flexible spinning satellites, 14606

- Stallings, Robert L., jr., experimental pressure distributions for family of blunt bodies at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15°, 14637

- Standard time, *see* Time.

Standards and standardization:

Defense Department—

- cataloging and standardization program, semiannual report, 13919
- specifications and standards, index, 14096-97

- standardization documents, supply classification listing, 14094

- Federal standards, 14236-237

- guide, 14325

- policy program (address), 13805

- gravity measurements and standards laboratory, 14675

- military standards, 14099-112

- product standard PS (series), 14668-669

- see also* subjects.

- Standing Rock Reservation, lands, hold in trust, report, 13998

- Standing Rock Sioux Tribe, North Dakota, *see* Sioux Indians.

- Stannett, V. T., radiation-induced polymerization and copolymerization of unusual monomers, 13717

- Stannous fluoride, self-preparation stannous fluoride prophylactic technique in preventive dentistry, report, 14516

- Stans, Maurice H., remarks, Sept. 10, 1969, 13808

- Staples, J. Clay, paper, June 17, 1969, 13645

- Star-Spangled Banner, writing and history of America's national anthem, 14704

- Starbird, I. R., cost of producing upland cotton in United States, supplement, 14123

- State bonds, tax treatment, tax reform, press releases announcing tentative decisions, 13945

State Department:

- background notes, 14890-903

- diplomatic and consular instructions, 1791-1801, pamphlet to accompany microcopy, 14655

- living quarters allowances, 14480

- records relating to political relations with Persia, pamphlet to accompany microcopy, 14661

States:

- actions to recover delinquent State taxes in District of Columbia on reciprocal basis, authorize, 14009

- climates, 14159-162

- departments of education, 1970-71 foreign curriculum consultant program, 14135

- Federal revenue sharing, message from the President, 13863

- Federal-State-industry cooperative, Savannah River water quality studies, report, 14804

- laws enacted in 1968 of interest to Department of Housing and Urban Development, 14397

- mental hospitals, patients, 1967, list, 14796

- private and public ownership of lands, differentiation, Federal reclamation laws, acreage limitation amendments, hearing, 14039

- soil and water conservation districts, status of organization, etc.,

INDEX

- States—Continued
travel information offices in U.S.A., list, 14957
- Static stability, *see* Stability of aircraft.
- Statistical abstract of United States:
departmental edition, 13774
document edition, 13856
- Statistical publications, *see* names of departments, etc., issuing publications.
- Statistics, metropolitan area, 13773
see also subjects.
- Statutes, *see* Law.
- Steam power plants, fish and fishing around
TVA steam plants, 14942
- Steamships, steamers, barges, etc., operating on Savannah River during 19th century, 14153
- Steel:
falem straightening and its effect on base metal properties, 14854
foundries, industry wage survey, 14457
mild, study of hydrogen evolution during aqueous oxidation, 14750
piling in seawater, corrosion and protection of, 14149
slag-iron and steel, minerals yearbook chapter, 14561
- Step Test of motivation to excel, 14518
- Stephenson, Judith J., computer routine for synthesizing ground backscatter from three-dimensional raysets, 14165
- Stepladders, Federal standard, 14236
- Steenbenville, Ohio, air quality control region, report for consultation, 14803
- Stevens, T. A., mineral resources of San Juan primitive area, Colo., 14329
- Stevens County, Wash., Colville River basin, streamflow characteristics, 14336
- Stiffeners (aircraft):
titanium skin-stringer panels, influence of various fabrication methods on compressive strength, 14634
- Stiles, Newell T., submarine sediment investigation in vicinity of planned Sealab III habitat, 14725
- Stipends, fellowships and summer stipends for younger humanists, 14678
- Stoehl, Robert J., gaseous-hydrogen pressurant requirements for discharge of liquid hydrogen from 3.96-meter-(13-ft)-diameter spherical tank, 14632
- Stock rooms, northern Illinois, occupational trends, 14466
- Stockmen, low-income ranchers, FIA insured operating loans, provide, hearing, 14014
- Stockrooms, *see* Stock rooms.
- Stocks, restricted plans, tax reform, press releases announcing tentative decisions, 13945
- Stockyards, packers and stockyards act, what it is, how it operates, 13597
- Stokes, C. S., development of barium chemical release system, 14586
- STOL (short takeoff and landing), *see* Aircraft.
- Storage batteries, battery life and moisture penetration of subdermally implanted devices, 13633
- Stores, variety, bibliography, 14856
- Storms:
coastal warning facilities chart—
Canadian border to Eureka, Calif. and Alaska, 14963
Eastport, Maine to Montauk Point, N.Y., 14964
Eureka to Point Conception, Calif., 14965
Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 14966
warning facilities chart, Hawaiian waters, 14967
- Stores, ranges, electric, gas and oil burning, Federal item identification guide, change, 14092
- Strain gages, Reclamation Bureau test programs, application, 14825
- Strains and stresses:
effect of test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
fatigue-crack growth in 7075-T6 and 2024-T3 aluminum alloy specimens, effect of stress ratio, 14635
tensile and stress-rupture properties of rolled Pb-Cd-Sb alloys, 14550
thermal fatigue cracking and oxidation of nickel- and cobalt-base alloys in high velocity gas stream, 14624
use of small and large displacement data from essentially elastic buckling tests on columns and plates to correlate theory and experiment, 13673
- Strategic and foreign policy implications of ABM systems, 14031
- Stratigraphy, Pierre shale, upper part, and Fox Hills sandstone, lower part, north-central South Dakota, 14348
- Streams, *see* Rivers.
- Streets, *see* Roads and highways.
- Strength of materials, compressive strength of titanium skin-stringer panels, influence of various fabrication methods, 14634
- Streptozotocin, *see* Antibiotics.
- Stresses, *see* Strains and stresses.
- Strimbeck, Donald C., Bureau of Mines coal-fired gas turbine research project, test of combustor and ash separators for open-cycle plants, 14558
- Stringers (aircraft), *see* Stiffeners (aircraft).
- Strippers (peeling devices): universal wire stripper, description, 14761
- Stroud, C. W., chemical equilibrium of ablation materials including condensed species, 14636
- Stroup, Robert H., rural income and expenditure, sample survey in Vietnam, initial report, 14425
- Student loan program, *see* Loans.
- Students:
campus riots and disorders, Oct. 1967–May 1969, staff study, 14037
Federal assistance programs, 1969–70 allocations of funds for educational purposes, 14052
student disturbances act of 1969, hearing, 14051
- Students For a Democratic Society:
activities:
Georgetown University, investigation, hearings, 13933
Kent State University, investigation, hearings, 13933
- Submarine boats:
nuclear, fire-retardant paint systems for interiors, 14749
sediment investigation in vicinity of planned Sealab III habitat, 14725
- Submarine warfare, strategic and foreign policy implications of ABM defense systems, hearings, 14031
- Submarines, *see* Submarine boats.
- Subsidence (earth movements):
ground-water withdrawal, Tulare-Wasco area, Calif., 14345
studies of land subsidence (series), 14345
- Subversion, *see* Un-American activities.
- Suchenwirth, Richard:
command and leadership in German Air Force, 13637
development of German Air Force, 1919–39, 13636
- Sudak, R. G., test of 10,000 GPD reverse osmosis, spiral module, pilot plant, San Diego, Calif., 14406
- Suggestion systems, management of suggestion awards portion of incentive awards program, Army Dept., GAO report, 14320
- Suicide, and suicide prevention, bibliography, 14782

Sulfuric acid, 2-(1-decylamino) ethanethio-
sulfuric acid in dimethyl sulfoxide, radio-
protection of primates, 13628
Summer employment, *see* Employment.
Sun:
 chromospheric spicules in H α and H β I
 3885.65 Å lines, observations, 14858
 observations made with 6-inch transit
 circle 1956-62, correction to FK4, GC,
 and N30, 14724
 solar proton monitoring system, 14170
Supervisors, supervisory responsibility for
safety, 14448
Supplies, *see* Government supplies—Medical
supplies—Military supplies.
Supply and demand, phosphate rock, potash
and nitrogen, statistical analysis, 14529
Supreme Court, cases adjudged, Court of
Claims cases, 14073
Surface chemistry, plastics reinforced by
strong fibers, 14755
Surface water, *see* Water.
Surinam, background notes, 14902
Surplus property:
 donable, program, hearings, 14032
 Federal property and administrative serv-
 ices act, amend, hearings, 14032
Surveyor Project, *see* Project Surveyor (un-
manned lunar exploration).
Surveys, *see* subjects of surveys.
Sutherland, Arthur A., jr., design of strap-
down gyroscopes for dynamic environment,
interim scientific report, 14575
Svejda, George J., history of Star Spangled
Banner from 1814 to the present, 14704
Swans, hunting, possession, transportation,
and/or importation, 1969-70, in United
States, etc., Federal regulations govern-
ing, 14884
Swanson, Howard E., standard X-ray diffraction
powder patterns, 14665
Symbols, for packages and containers for
hazardous industrial chemicals and materi-
als, military standard, 14108
Synthetic organic chemicals, *see* Organic
compounds.
System package program NS-SPP series,
14190
Systems, application of systems approach to
training, case study, 13793
Systems Research and Development Service,
scientific and technical reports, list, 14938

T

Tables (compilation), *see* Numerical calcula-
tions—technical, scientific and economic
subjects.
Tablets (medicine):
 iodine, effect of soft drinks mixes on
 germicidal properties of, 14510
Tabor, R. W., on batholiths and volcanos,
intrusion and eruption of late Cenozoic
magmas in Glacier Peak area, North Cas-
cades, Wash., 14347
Tacina, Robert R., analysis of total-pressure
loss and airflow distribution for annular
gas turbine combustors, 14631
Tactics, *see* Military art and science.
Taft, Robert A., Water Research Center, *see*
Robert A. Taft Water Research Center.
Tagged arithmetic, 14619
Tahoe National Forest, camping and pic-
nicking, 14253
Tailings (metallurgy), *see* Hydraulic mine
filling.
Taiwan, mineral industry, minerals yearbook
chapter, 14543
Talented children, *see* Children.
Tamanini, F. L., structural systems in sup-
port of highway safety, 14821
Tanks (combat vehicle):
 Army tank program, review, hearings,
 13920

Tanks (containers):
 3.96-meter-(13 ft-) diameter spherical
 tank, gaseous-hydrogen pressurant re-
 quirements for discharge of liquid hy-
 drogen, 14632
Tape, pressure sensitive adhesive, Federal
standard, 14237
 see also Electronic data processing sys-
 tems.
Tape (magnetic), *see* Magnetic tape.
Targets, monochromatic targets, effects of
differing amounts of training on sextant
sighting performance, 14605
Tariff:
 antidumping, report of President of United
 States, 14024
 customs—
 hints for returning U.S. residents, know
 before you go, 14075
 regulations, revised pages, 14076-077
 foreign trade and tariff proposals hearings,
 13944
 summaries of trade and tariff information,
 14939
Task variables, sixty-minute vigilance task
with 100 scoreable responses, 14501
Tate, D. R., gravity measurements and stand-
ards laboratory, 14675
Tax exemption, foundations and charitable
trusts, their impact on our economy,
13942
Taxation:
 interest equalization tax, temporary ex-
 tension, report, 1399
 tax reform act of 1969—
 development, etc. (remarks), 14950
 revised summary list and brief descrip-
 tion, 13946
 statement of David M. Kennedy, Secre-
 tary of Treasury, 14029
 testimony, 14030
 testimony and additional statements,
 14027-28
 tax reform subjects, press releases an-
 nouncing tentative decisions, 13945
 see also Excise taxes—Income tax.
Taxes, *see* Taxation.
Taylor, Hannibal B., relief, 13882
Taylor, Lawrence W., jr., fixed-base simula-
tor pilot rating surveys for predicting
lateral-directional handling qualities and
pilot rating variability, 14615
Teaching:
 academic freedom protective act of 1969,
 hearing, 14051
 conservation teaching aid (series), 14294
Teamwork, team interpretation procedures,
selection of teammates and role assign-
ment, 13664
Technical bulletins, Agriculture Department,
13608
Technical cooperation, *see* Foreign aid.
Technical instruments, import trends, 1958-
67, analysis, 1331
Technical manuals, Army Department,
13661-663
Technical memorandums:
 Coastal Engineering Research Center,
 14149
 Environmental Science Services Adminis-
 tration, 14163
Technical notes:
 Environmental Technical Applications
 Center, 13620
 National Aeronautics and Space Adminis-
 tration, 14602-619
 National Bureau of Standards, 14672-675
Technical papers Census Bureau, 13775
Technical reports:
 Air Weather Service, 13618
 Army Aviation Materiel Laboratories,
 13669-677
 Civil Defense Office, 13783
 Cold Regions Research and Engineering
 Laboratory, 13653

INDEX

Technical reports—Continued

- Environmental Science Services Administration, 14164-171
- highway planning, 14814
- Natick Laboratories, 13657
- School of Aerospace Medicine, 13628-633
- Waterways Experiment Station, 14155-156
- Technical research notes, Behavioral Science Research Laboratory, 13664-667
- Technical research reports, Behavioral Science Research Laboratory, 13668
- Technical translations, National Aeronautics and Space Administration, 14650-652
- Technicians:
 - from other countries, intern-training opportunities provided by U.S. Geological Survey, 14311
 - job market, 14146
- Technology:
 - ESSA research Laboratories publications, list, 14177
 - Institutes for Environmental Research publications, list, 14173
 - processes of assessment and choice, panel report, 13911
 - science, technology and the citizen (remarks), 13723
 - training systems and technology series, 13793
 - see also subjects.
- Teeth, dental health in community care programs, smiling smiles, guide for teaching, 14696
- Telemetry, NMFRL telemetry system, development, 2d report, 14513
- Telephone:
 - directories—
 - Agriculture Department, 13609
 - Atomic Energy Commission, 13724
- Television, can television really teach? 14130
- Temperature:
 - elevated, electrical resistivity of hyperstoichiometric columbium and zirconium carbide materials, 14553
 - improvement of clear column radiance determination with supplementary 3.8u window channel, 14163
 - thermal gradient effects on 13 flush mounted pressure transducers, 14674
- Tennessee:
 - census of business, 1967, retail trade, area statistics, 13750
 - potential development of central Appalachia, preliminary analysis, 13650
 - uranium reconnaissance, preliminary, 13712
- Tennessee Valley Authority, fish and fishing around TVA steam plants, 14942
- Tensile stresses, see Strains and stresses.
- Terminals (transportation):
 - air traffic control, change, 13643
- Territories, United States, territorial travel information offices, list, 14957
- Test equipment, see Testing apparatus.
- Test wells, see Well drilling.
- Testing, testing standard for personnel parachutes, military standard, 14102
 - see also names of substances or objects tested.
- Testing apparatus, test machine extensional rigidity, effect on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
- Tests, see Coordination test—also types or names of tests.
- Texas:
 - census of business, 1967, retail trade area statistics, 13751
 - soil and water conservation, 14873
 - west, Permian brachiopods, 14859
- Textiles:
 - our need is so great, our objective so reasonable, our resolve so determined (remarks), 13807

Textiles—Continued

- U.S. textile/apparel exports, foreign regulations affecting, 13726
- webbing, color codes, manufacturers' identification, military standard, 14111
- Thatcher, John W., slag-iron and steel, 14561
- Thermal expansion, see Expansion (thermal).
- Thermal gradients, see Temperature.
- Thermal properties, thermal fatigue cracking and oxidation of nickel- and cobalt-base alloys in high velocity gas stream, 14624
- Thermal radiation, heat transfer in black-body, electromagnetic theory, and material properties, errata, 14595
- Thermal shock, and cyclic heating, effects on hafnia stabilized with calcia, magnesia, and yttria, 14607
- Thermionic converters:
 - with chloride vapor deposited tungsten emitter (110) and nickel collector, characteristics, 14587
 - with fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
- Theses, see Dissertations.
- Thinning of forests, see Forest thinning.
- This land, this water, this west, 14764
- Thomas, Rose, relief, 13878
- Three Affiliated Tribes of Berthold Reservation, see Fort Berthold Reservation.
- TIAS series, 14907-930
- Ticks:
 - cooperative tick eradication activities, report, 13553
 - national tick surveillance program, 13545
- Tides:
 - current tables, 1970, Pacific Coast of North America and Asia, 13798
 - tables, central and western Pacific Ocean and Indian Ocean, 13799
- Tiles, failure of floor tile systems, investigation, 14204
- Tilman, Milton M., tensile and stress-rupture properties of rolled Pb-Cd-Sb alloys, 14550
- Tilmon, Emogene, sand and gravel conveyance, 13972
- Tilmon, Wayne and wife, sand and gravel conveyance, 13974
- Timber, lodgepole pine and spruce-fir, in Colorado, response of deer to alternate-strip clearcutting, 14284
- Time, standard time and frequency, its generation, control, and dissemination from National Bureau of Standards Time and Frequency Division, 14672
- Time deposits, time and savings deposits, changes, 14226
- Titanium, titanium skin-stringer panels, influence of various fabrication methods on compressive strength, 14634
- Tobacco, revenue rulings, etc., internal revenue bulletin, cumulative index-digest supplement system, supp., 14414
- Tonto Springs Range, grazing values on undisturbed chaparral versus areas converted to grass, 14264
- Topside sounder, see Satellites.
- Tor-Shok reusable energy absorbing protective barrier, 14822
- Torque, torque and leakage rates of various lubricated lip seal designs at peripheral velocity of 120 feet per second, 14647
- Toward a national materials policy, report, 14061
- Toward a new fiscal federalism (remarks), 14953
- Toward equal opportunity in Federal employment, 13796
- Tracer studies, Amargosa Desert, Nye County, Nev., by Geological Survey, exploratory drilling, tracer well construction and testing, and preliminary findings, 14360
- Tracking stations, extension, agreement with Spain, 14916

- Traction, runway traction (paper), 13647
 Trade, *see* Commerce.
 Trade expansion act of 1968, *see* Commercial treaties.
 Trade fairs, *see* Fairs.
 Traffic:
 bias in license plate traffic survey response evaluation, 14814
 regulation and law enforcement on national forest development road system, 13602
 see also Transportation.
 Trails, Cle Elum Ranger District, Wenatchee National Forest, trips, 14255
 Trainers (devices), *see* Training devices.
 Training:
 application of systems approach to training, case study, 13793
 electrical appliance serviceman, suggested guide, 14133
 enactments, 90th Congress, 2d session, 14055
 sextant sighting performance and effects of differing amounts of training and of monochromatic targets, 14605
 training systems and technology series, 13793
 see also subjects.
 Training devices, gas hazards trainer, maritime safety data, 14443
 Transducers, flush mounted pressure transducers, thermal gradient effects, 14674
 Transient response of coupled acousto-mechanical systems, 14588
 Transistors, transistor series amplifier, 14762
 Translations, technical, National Aeronautics and Space Administration, 14650-652
 Transmission lines, *see* Electric lines.
 Transmissions, study 190, Steering Committee report, 14409
 Transplantation (physiology):
 research advances in human transplantation, 14694
 Transport aircraft, *see* Aircraft.
 Transportation:
 airlift service management report, Military Airlift Command, 13625
 Army transportation movements management, 13656
 directory of urban transportation research and planning projects, 14394
 Federal regulation in Alaska, 14197
 inter-American, affected by regulatory problems (remarks), 14211
 Isthmian Canal demand forecast, economic analysis of potential tonnage traffic, 14944
 migratory birds, 1969-70, in United States, etc., Federal regulations governing, 14884
 modes of, study of uniform reporting system in reporting incidents and accidents involving shipment of hazardous materials, 14721
 moving expenses, tax, reform, press releases announcing tentative decisions, 13945
 regulatory problems affecting inter-American transportation (remarks), 14211
 Transylvania, Hungarians in Transylvania, bibliographical list, 13860
 Travel:
 Cle Elum trail trips, Wenatchee National Forest, 14255
 pleasure and business visitors to U.S. by port of entry and mode of travel, 14956
 State and territorial travel information offices in U.S.A., list, 14957
 Treasury Department, department circular, public debt series, 14946-948
 Treasury notes:
 6½ percent, series B-1976, 14947
 6¾ percent, series B-1970, 14946
 7¾ percent, series B-1971, 14948
 Treaties, treaties and other international acts series, 14907-930
 Tree nuts, *see* Nuts.
 Tree planting, in Southwest, here's how, 14291
 Trees:
 seedlings, assimilation chamber for measuring—
 carbon dioxide exchange, 14286
 outdoor photosynthesis, 14285
 Tribus Myron, address, Sept. 16, 1969, 13805
 Trinity River and Valley, hydrologic data of basin, compilation, Little Elm Creek, Tex., 14340
 Trips, *see* Travel.
 Tropics, corrosion of metals in tropical environments, 14744
 Trout, pond management, 14869
 Trucks, *see* Motortrucks.
 Trust Territory of Pacific Islands:
 claims against Japan, agreement, 14925
 High Commissioner, nomination of Edward E. Johnston, hearing, 14042
 Trusts and trustees:
 accumulation trusts including multiple trusts, tax reform press releases announcing tentative decisions, 13945
 legal investments for trust funds in District of Columbia, list, 14116
 see also Charitable trusts.
 Truth in lending, *see* Credit.
 Tsunami (tidal wave):
 Alaska, earthquake of Mar. 27, 1964, effects on various communities, 14346
 Crescent City Harbor, tsunami model, theories in design of proposed, 14155
 Tuba City, Ariz., chemical stabilization of uranium tailings, 14552
 Tuberculosis in animals, laboratory diagnosis, recommended standard procedures, 13540
 Tuck, Bradford H.:
 aggregate income model of semi-autonomous Alaskan economy, 14193
 selected economic indicators, 14198
 Tuff, *see* Volcanic ash, tuff, etc.
 Tulare-Wasco area, Calif., land subsidence due to ground-water withdrawal, 14545
 Tungsten:
 chloride vapor deposited tungsten emitter (110) and nickel collector, thermionic converter with characteristics, 14587
 thermionic converter with fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
 Tunisia, agricultural commodities, agreement, 14926
 Turbine blades, *see* Blades.
 Turbine fans, large-scale 1.075-pressure ratio tip-turbine cruise-fan propulsion system at angle of attack, subsonic aerodynamic characteristics, 14611
 Turbines:
 annular gas turbine combustors, analysis of total-pressure loss and airflow distribution, 14631
 gas, Mines Bureau coal-fired research project, test of combustor and ash separators for open-cycle plant, 14558
 large-scale 1.075-pressure ratio tip-turbine cruise-fan propulsion system, subsonic performance characteristics, 14610
 single-stage axial compressor component development for small gas turbines, 13675
 turbomachines, FORTRAN program for calculating velocities, etc., errata, 14603
 viscous, isothermal compressible flow across sealing dam with small tilt angle, computer program, 14621
 see also Engines (aircraft).
 Turbofan engines, *see* Engines (aircraft).
 Turbulence, boundary layer, experimental and theoretical development in Mach 4.4 water-cooled conical nozzle, 14625

INDEX

- Turkey, labor conditions and organizations, 14463
- Turkeys, national improvement plan, conference report, 13554
- Tussock moths, Douglas-fir tussock moth control, Mulheir and Ochoco National Forests, 1965 surveillance, 14295
- TVA, *see* Tennessee Valley Authority.
- 2-(1-decylamino) ethanethiosulfuric acid, *see* Sulfuric acid.
- U**
- Ultrasonics, *see* Sound.
- Un-American activities:
- campus disorders, extent of subversion, hearings, 14049
 - Students For a Democratic Society, activities, investigation, hearings, 13933
- Underground structures, underground emplacement of nuclear explosives, construction techniques and costs for Plowshare program, 13708
- Underwater sound, *see* Sound.
- Unemployed:
- area trends in employment and unemployment, 14943
 - unemployment, New York City, facts, 14474
 - Unemployment, *see* Unemployed.
 - Unemployment insurance, benefit series service, 14954
 - Unfried, Amy B., computer mapping, 13759
 - Uniformed services, *see* Armed Forces.
 - Union of Soviet Socialist Republics—
 - background notes, 14903
 - embassy sites, agreement, 14907
 - social science research, special papers available, 14904
 - strategic and foreign policy implications of ABM systems, antisubmarine warfare and multiple independently targeted re-entry vehicles (MIRV), hearings, 14031
 - Unions, *see* Labor unions.
 - United Kingdom, *see* Great Britain.
 - United Spanish War Veterans, convention, proceedings, 13849, 13858
 - United States:
 - NOTE.—For all subjects pertaining to the United States, except its government, general history, and description, *see* such subjects, statistical abstract, 1969—
 - departmental edition, 13774
 - document edition, 13856
 - Universe, red-shift-magnitude relation and observational data, 14640
 - Universities, *see* Colleges and universities.
 - Upham, Charles W., soil survey of Plymouth County, Mass., 14879
 - Upland cotton, *see* Cotton.
 - Upper air, *see* Atmosphere.
 - Upper atmosphere, *see* Atmosphere.
 - Upper Volta, background notes, 14900
 - Upwind-downwind - crosswind sea-clutter measurements, 14748
 - Uranium:
 - chemical stabilization of uranium tailings at Tuba City, Ariz., 14552
 - reconnaissance, preliminary—
 - Alabama, Georgia, Mississippi, Tennessee, Virginia, and West Virginia, 13712
 - Arkansas, Illinois, Kentucky, Michigan, Minnesota, Missouri, Ohio, and Wisconsin, 13709
 - Kansas, Nebraska, and Oklahoma, 13710
 - Maryland and Pennsylvania, 13711
 - North and South Carolina, 13713
 - water load, at selected gaging stations, 14371
 - Urban areas, *see* Cities and towns.
 - Urban life, *see* Cities and towns.
 - Urban policy, *see* Redevelopment (city planning, etc.).
 - Urban renewal, *see* Redevelopment (city planning, etc.).
 - Urethritis:
 - nongonococcal urethritis associated with T strains of mycoplasma, 14511
 - TRIC Agent, serological fluorescent antibody and associated findings, report, 14517
 - Uric acid, serum levels and leadership in Marine Corps, 14508
 - USAF, *see* Air Force.
 - USDA, *see* Agriculture Department.
 - Usdin, Earl, psychotropic drugs and related compounds, supplement, 14802
 - USMA, *see* Military Academy, West Point.
 - USSR, *see* Union of Soviet Socialist Republics.
 - Utah, Southern Utah and Goshute Valleys, selected hydrologic data, 14361
 - Utilities, *see* Public utilities.
 - Utility Consumers Counsel Office, establish, hearings, 14038
 - United Spanish War Veterans, convention, 1968, proceedings, 13858

V

VA, *see* Veterans Administration.

Vaccination, assistance act of 1969, hearing, 14054

Vacuum:

 - melting, residual gas analysis, mass spectrometry, 14556
 - vacuum gage calibration from 10^{-8} to 10 torr, volume-ratio system, evaluation, 14644

Vacuum pumps, *see* Pumps.

Valley of Fire State Park, land conveyance, report, 13991

Value engineering, management improvement, design or manufacture simplification performed by contractors, opportunities for increased savings, Defense Dept., GAO report, 14321

Values, *see* Worth.

Vaporization, vaporization and decomposition kinetics of candidate re-entry black-out suppressants in low-pressure flames, 14567

Vapors, thermionic converter with chloride vapor deposited tungsten emitter (110) and nickel collector, characteristics, 14587

Vardiman, R. G., dislocation pipe diffusion in silver single crystals, 14745

Variety stores, *see* Stores.

Vatican City State, background notes, 14901

Vegetables:

 - home canning, 13588
 - home freezing, 13589
 - winter, acreage marketing guides, 14063

Vegetation, radiation doses and short-term effects from close-in fallout, 13707

Vehicles, Eldorado National Forest, vehicle control area map and vehicle use rules in area, 14270

Velocity:

 - acoustic velocity meter for measurement of net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use, 14372
 - coupling, role in solid-propellant combustion instability, 14639
 - FORTRAN program for calculating in magnified region on blade-to-blade stream surface of turbomachine, errata, 14603
 - various lubricated lip seal designs at peripheral velocity of 120 feet per second, torque and leakage rates, 14647

Venezuela, economic trends and their implications for United States, 14419

Venom, snake envenomation, cryotherapy treatment, 14507

- Vermont, pollution of interstate waters of Lake Champlain and its tributary basin, conference proceedings, 14240
- Vessels, *see* Boats—Ships.
- Veterans, reemployment rights, Army National Guard and Army Reserve, briefing session and program, 13658
see also Life insurance.
- Veterans Administration:
construction of new hospital in southern California, hearings, 13943
medical care cost accounting system, improvements made GAO report, 14319
VA pamphlets, 14961
voluntary service, National Advisory Committee, report of 1969 meeting, 14962
- Veterans Affairs Committee, House, hearings, 13943
- Veterans Appeals Board, rules of practice, 14961
- Veterans hospitals, southern California, construction of new hospital, hearings, 13943
- Veterinarians, trainee, summer employment for juniors in veterinary medicine, examination announcement, 13797
- Veterinary Biologics Division, notice, 13557
- Veterinary medicine, summer employment for juniors, veterinarian trainee, examination announcement, 13797
- Veterinary zoology, *see* Zoology.
- Vibration:
aircraft engine components, investigation, 14652
launch vehicles, longitudinal mass-spring modeling, 14620
tests, spectral analysis, prototype study, 14840
- Vice President of United States:
election, amend Constitution, hearings, 13940
election, amend Constitution relating to electoral college reform, hearings, 14048
- Vietnam:
agricultural commodities, agreement, 14914
rural income and expenditure sample survey, initial report, 14425
- Vigil, Richard, relief, 13886
- Vigilance, sixty-minute vigilance task with 100 scoreable responses, 14501
- Virgin Islands:
census of business, 1967, manufactures, and mineral industries, 13754
Governor, nomination of Melvin R. Evans, hearing, 14044
- Virginia:
landings, fish and shellfish, annual summary, 13812
potential development of central Appalachia, preliminary analysis, 13650
uranium reconnaissance, preliminary, 13712
- Visitors:
data on visitors to U.S., 14955
pleasure and business visitors to U.S. by port of entry and mode of travel, 14956
- Visual instruction, *see* Audio-visual education.
- Vital statistics:
programs and collection procedures, 14811
United States, 14812
vital and health statistics series, PHS publication 1000, current listing, 14785
see also Death.
- Vitamins, pantothenic acid, vitamin B6 and vitamin B12 in foods, 13591
- Viterbo, Placido, relief, 13872
- Vocational counselors, *see* Counselors.
- Vocational education, adult vocational training, approved courses, Indian Affairs, Bureau, 14399
- Vocational rehabilitation, *see* Rehabilitation of the disabled.
- Volcanic ash, tuff, etc., diagenesis of tuffs in Barstow formation, Mud Hills, San Bernardino County, Calif., 14351
- Volcanoes, Glacier Peak area, North Cascades, Wash., intrusion and eruption of late Cenozoic magmas, 14347
- Voleker, Paul A., statement, Sept. 3, 1969, 14952
- Volume-ratio system for vacuum gage calibration from 10^{-3} to 10 torr, evaluation, 14644
- Volunteer workers, returning Peace Corps volunteers, opportunities in Federal service, 13791
- V/STOL (vertical or short takeoff and landing), *see* Aircraft.
- VTOL (vertical takeoff and landing), *see* Aircraft.

W

- Wage Appeals Board, decisions, 1964-68, index digest, 14882
- Wages:
area surveys—
Canton, Ohio, 14456
Charleston, W.Va., 14451
Greenville, S.C., 14453
Richmond, Va., 14452
Rockford, Ill., 14455
employee compensation, 1966, in private nonfarm economy, 14458
industry surveys, iron and steel foundries, 14457
occupational earnings and wage trends in metropolitan areas, 14467
wage trends for occupational groups in metropolitan areas, 14481
work incentive program, from welfare to wages, 14442
- Walking, be safe, be seen, let's shed some light on pedestrian safety, 14781
- Wallace, Donald L., soil survey, Gallatin County, Ill., 14874
- Wallmo, O. C., response of deer to alternate-strip clearcutting of lodgepole pine and spruce-fir timber in Colorado, 14284
- Walton, T. R., fire-retardant paint system for nuclear submarine interiors, 14749
- Wanhainen, John P., effect of injection element radial distribution and chamber geometry on acoustic-mode instability in hydrogen oxygen rocket, 14623
- Ward, Lloyd L., jr., relief, 13987
- Warehouses, northern Illinois, occupational trends, 14466
- Warfare, *see* Submarine warfare.
- Warhead missiles, *see* Missiles.
- Warner, Theodore B., measurement of fluoride activity and concentration in seawater using lanthanum fluoride electrode, 14753
- Warning systems, air-to-ground warning device, 14261
- Washington, D.C., *see* Capital of United States—District of Columbia.
- Washington International School, Inc., conveying District property to, report, 13999
- Washington State:
Christmas tree directory for growers, wholesalers, and retailers, 14254
portable cesium irradiator operation, 13702
- Waste disposal, *see* Radioactive waste disposal—Sewage
- Waste products, summary of solid wastes program contracts, 14809
- Water:
and waste disposal loans to associations, provide flexible interest rates, hearing, 13911
asphaltic membranes for seepage control, 14826

INDEX

Water—Continued

atmospheric water resources program, Project Skywater, Colorado River basin pilot project, scientific review plans and design, conference proceedings, 14837
 California, references for well data and water levels by Geological Survey, 14356
 conservation districts, status of organization, by States, etc., 14872
 conservation in Texas, 14873
 cooled Mach 4.4 conical nozzle, experimental and theoretical turbulent boundary layer development, 14625
 fresh, 15 years' exposure of structural ferrous metals in tropical environments, 14744
 geochemistry of water (series), 14371
 ground water—
 Egypt's corrosive, selection of metal components for long-term development, 14357
 land subsidence due to withdrawal, Tulare-Wasco area, Calif., 14345
 levels in U.S., 1962-66, North Central States, 14377
 shallow, in Rincon and Mesilla Valleys, N. Mex. and Tex., 14354
 tracer well construction and testing, exploratory drilling, and preliminary findings, Geological Survey tracer study Amargosa Desert, Nye County, Nev., 14360
 hydrodynamics and water waves, introduction—
 fundamentals, 14168
 water wave theories, 14169
 Kansas, for future use, interim report, 14844
 load of uranium, radium, and gross beta activity at selected gaging stations, 14371
 metals, report of study, 14779
 net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use of acoustic velocity meter for measurement, 14372
 Pacific Southwest land and water resources comprehensive framework study program, 14764
 publications, current list, 14242
 quality—
 and discharge of streams in Lehigh River basin, Pa., 14374
 mechanics of flow from stratified reservoirs in interest of, 14156
 reclamation, application of, dilute solution reactions of nitrate ion, 14245
 resources—
 coordination of research, report of meeting, 14830
 Florida, 14362-365
 Montana, 14366
 Nebraska, 14367
 New Jersey, 14368
 New Mexico, 14369
 New York, development by Army Corps of Engineers, 14154
 North Dakota, 14370
 technical publication, 14839
 saline water research and development progress report, 14403-407
 Savannah River, Federal-State-industry cooperative quality studies, report, 14804
 surface water—
 quality, United States, 14376
 supply, 1961-65, United States, 14375
 water supply and pollution control, environmental health series, 14791
 water supply papers, 14371-377
 water-well corrosion, Chad Basin, Nigeria, preliminary study, 14344
see also Hydrology.
 Water birds, helminths of waterfowl, annotated bibliography, 14887
 Water fowl, *see* Water birds.

Water levels, fluctuations in Aberdeen-Springfield area, Bingham and Power Counties, Idaho, 1966, records, 14355
 Water pollution:—
 clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, 14239
 interstate waters, Lake Champlain and its tributary basin, New York and Vermont, conference proceedings, 14240
 Lake Michigan and its tributary basin, Illinois, Indiana, Michigan, and Wisconsin, conference proceedings, 14241
 mineral pollution problem in Colorado River Basin, general background, 14243
 role of bottom-dwelling macrofauna in water pollution investigations, 14791
 Water Quality Sub-Task Force on Project Potomac, report, 14244
 water supply and pollution control, environmental health series, 14791
 Water quality act of 1965, *see* Water pollution.
 Water Quality Sub-Task Force on Project Potomac, report, 14244
 Waterborne commerce, *see* Commerce.
 Watercraft, *see* Boats.
 Waterfowl, *see* Water birds.
 Waters, Lawrence K., stability of Edwards personal preference schedule need scale scores and profiles over 7-week interval, 14495
 Watersheds, chaparral, selective control of brush with soil-applied fenuron and picloram, 14283
 Waterways Experiment Station, technical reports, 14155-156
 Watkins, Laverne L., corrosion and protection of steel piling in seawater, 14149
 Watt, William S., nonequilibrium gasdynamics, 14583
 Wave functions, wave equation in prolate spheroidal coordinates, tables of eigenvalues, 14743
 Waves:—
 hydrodynamics and water waves, introduction—
 fundamentals, 14168
 water wave theories, 14169
 see also, Radio waves.
 Ways and Means Committee, House:—
 committee prints, 13945-946
 hearings, 13944
 Ways to attract non-game birds, 14881
 Weapons, antiballistic missile systems, strategic and foreign policy implications, anti-submarine warfare and multiple independently targeted reentry vehicles (MIRV), hearings, 14031
 Weather:—
 basic cold weather manual, Army field manual, change, 13655
 service O international schedules, change, 13641
 Weather control:—
 Air Weather Service, weather modification program, FY 1969, annual survey report, 13618
 Project Skywater—
 conference proceedings, Colorado River basin pilot project, scientific review plans and design, 14837
 special park range cooperative experiment, summary report, 14827
 Weather forecasts:—
 coastal warning facilities chart—
 Canadian border to Eureka, Calif. and Alaska, 14963
 Eastport, Maine to Montauk Point, N.Y., 14964
 Eureka to Point Conception, Calif., 14965
 Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 14966
 warning facilities chart, Hawaiian waters, 14967

- Weather modification, *see* Weather control.
- Weaver, Lewis K., graphite, 145277
- Webbing, textile, color codes, manufacturers' identification, military standard, 14111
- Weevils, boll weevil, how to control it, 13584
- Wegener, James F., conferring citizenship posthumously, 13953
- Weidenbaum, Murray L., remarks, Aug. 27, 1969, 14953
- Weights and measures, commercial specifications, tolerances and other technical requirements, replacement pages, 14663
- Weinerman, E. Richard, ambulatory service data system, 14778
- Weirton, W. Va., air quality control region, report for consultation, 14803
- Welding, flame straightening and its effect on base metal properties, 14854
- Weldments, *see* Welding.
- Welfare, *see* Public assistance.
- Well drilling, test wells, Post Area, White Sands Missile Range, Dona Ana County, N. Mex., 14359
- Wells, Leora W., acquisition and development of values, perspectives and research, 14682
- Wells:
- California, references for well data and water levels by Geological Survey, 14356
 - metal components for long-term development of Egypt's corrosive ground waters, selection, 14357
 - observation, and water-level fluctuations in Aberdeen-Springfield area, Bingham and Power Counties, Idaho, 1966, records, 14355
 - tube, of Indus Plains, West Pakistan, corrosion and encrustation mechanisms, preliminary evaluation, 14343
 - water-well corrosion, Chad Basin, Nigeria, preliminary study, 14344
- Wenatchee National Forest, Cle Elum trail trips, 14255
- West, J. M.:
- boron, 14525
 - mercury, 14536
- West Virginia:
- census of business, 1967, retail trade, area statistics, 13752
 - potential development of central Appalachia, preliminary analysis, 13650
 - route 52, designate as part of National System of Interstate and Defense Highways, hearings, 13939
 - uranium reconnaissance, preliminary, 13712
- Western Europe, *see* Europe.
- Weston, J. P., estimating diameter of plasma in propulsion motor plume, 14746
- What is relocation all about, 14391
- Wheat, durum, allotments, increase, hearing, 13914
- Wheeler Peak Scenic Area, Humboldt National Forest, general information, 14297
- Wheeling, W. Va., air quality control region, report for consultation, 14803
- Where the leaders are, 13682
- White, Richard P. jr., aerodynamic and aeroelastic characteristics of full-scale rotor blade stopped in flight, 13676
- White fir, *see* Fir.
- White River Lakes, climatic summaries of resort areas, 14158
- White Sands Missile Range, Post Area, Dona Ana County, N. Mex., test wells, 14359
- Whitman, Robert A., mineral industry of Bolivia, 14537
- Whitney, M. B., processing and display experiments using digitized ATS-1 spin scan camera, data, 14171
- Who will listen? 13784
- Wholesale trade, *see* names of commodities and industries.
- Wilderness areas:
- national forests in Oregon Cascades, management direction for wilderness and primary recreation zones, 14269
 - Wilderness areas—Continued
 - studies related to wilderness primitive areas (series), 14328-329
 - Wildfire, *see* Forest fires.
 - Wildlife:
 - saving forests and related wildlife resources from insects and diseases, 13599
 - special scientific reports, wildlife series, 14857
 - wildlife leaflets, 14888
 - wildlife portrait series, 14889
- Willamette National Forest, a national forest and national wilderness preservation system, 1968 annual report, 14299
- Wilson, I. Dodd, serum enzyme changes after physical exertion, 14504
- Wilson, James F., jr., movement of solute in Potomac River estuary at Washington, D.C. at low inflow conditions, 14337
- Wilson, V.C.
- characteristics of thermionic converter with—
 - chloride vapor deposited tungsten emitter (110) and nickel collector, 14587
 - fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, 14571
- Wind, *see* Winds.
- Wind tunnels, investigation of STOL aircraft configuration equipped with external-flow jet, flap, 14617
- Winds:
- turbulent wind field below 150M altitude at Eastern Test Range, investigation, 14582
 - upwind-downwind-crosswind sea-clutter measurements, 14748
- Wings (aircraft):
- lifting horizontal-axis rotating-wing aeronautical systems (HARWAS), review and evaluation, 13677
- Wisconsin:
- census of business, 1967, retail trade, area statistics, 13753
 - pollution of Lake Michigan and its tributary basin, conference proceedings, 14242
 - uranium reconnaissance, preliminary, 13709
- Witherell, Julian W., Ghana, guide to official publications, 1872-1968, 14483
- Women, marines, physical fitness test standards, 14505
- Wong, Dug Foo, relief, 13952
- Wong Yui and wife, relief, 13969
- Wood:
- research, dividends, publications, lists, 14258
 - trade and tariff information summaries, 14939
- Woodcuts, Werner Drewes, catalogue, 14677
- Wooten, Carl B., portable cesium irradiator operational reports, 13701
- Work:
- incentive program, from welfare to wages, 14442
 - resources and work force management civil engineering, Air Force manual, change, 13612
 - work and workers, some aspects of changing patterns in urban environment, 14470
- Workers, *see* Labor.
- Working for U.S.A., 13790
- Worth, acquisition and development of values, perspective on research, conference report, 14682
- Wrightsville Beach Test Facility, sea water conversion, 14408
- Wu Hip, relief, 13954
- Wyoming:
- in vitro digestibility of alpine forages, 14288
 - national forests, multiple use of resources, 14274
 - resource planning, how soil surveys help, 14871

INDEX

X

X-rays, diffraction, powder patterns, 14065

Y

Y.O.U., *see* Youth Organizations United.

Yang, Andrew Chu, relief, 13955

Yang, J. Y., development of radioactive pebble bed chemical reactor system, phase 2 report, 13703

Yarger, William E., body armor in hot humid environment, studies in unacclimatized men, 14512

Yarn, quality, and spinning performance as affected by lint color and trash in field-exposed cotton, 1966-67 crop year, 13594

Yellowtail Dam and Reservoir, *see* Missouri River Basin project.

Yellowtail unit, *see* Missouri River Basin project.

You and the draft, 14853

Youth:

it's Y.O.U., Youth Organizations United, 14136

making it, stay ahead, stay in school, 14773

U.S., 12-17 years of age, plan and operation of health examination survey, 14811
see also 4-H clubs.

Youth Organizations United, it's Y.O.U., 14136

Yttrium oxide, hafnia stabilized with, effects of cyclic heating and thermal shock, 14607
Yui, Wong, *see* Wong Yui.

Z

Zambelli, Aleksandar, relief, 13963

Zeller, John R., analysis of dynamic performance limitations of fast response (150 to 200 Hz) electrohydraulic servos, 14633

Zimmerli, Emma, relief, 13890

Zinc, lead-zinc exploration, Mississippi Valley, lead isotope guide, 14335

Zirconium, minerals yearbook chapter, 14562

Zirconium carbide, hyperstoichiometric, at elevated temperatures, electrical resistivity, 14553

Zisman, W. A., surface chemistry of plastics reinforced by strong fibers, 14755

Zoology:

medical and veterinary, index catalogue, 13542-44

Smithsonian contributions to zoology, 14860

Zuk, John:

computer program for viscous, isothermal compressible flow across sealing dam with small tilt angle, 14621

investigation of isothermal compressible flow across rotating sealing dam, 14614

To Superintendent of Documents,
Government Printing Office,
Washington, D.C. 20402

For Use of Supt. of Docs.

Enclosed _____

To be mailed
later

Subscriptions

Refund

Coupon refund

Postage

CATALOG No.QUANTITY
DESIRED

TITLE OF PUBLICATION

AMOUNT

Total, \$	
-----------	--

U.S. GOVERNMENT PRINTING OFFICE
DIVISION OF PUBLIC DOCUMENTS
WASHINGTON, D.C. 20402

POSTAGE AND FEES PAID
GOVERNMENT PRINTING OFFICE

Name _____

Street Address _____

City, State, and ZIP Code _____

Additional space for your order

[illegible]

Do not write in space below

Total, \$.

GOVERNMENT PRINTING OFFICE BOOKSTORES

In addition to the mail-order service provided by the office of the Superintendent of Documents, Government Printing Office, for the sale of those publications listed in the Monthly Catalog with an asterisk (*) and price, there are also seven retail bookstores which constitute a part of the operations of that office. The locations of these stores are shown below:

Government Printing Office
710 North Capitol Street
Washington, D.C. 20402
Telephone: Area code 202-783-3238

Department of Commerce, Lobby
14th and Constitution Avenue NW
Washington, D.C. 20230
Telephone: Area code 202—WOrth 7-3527

USIA Building, 1st floor
1776 Pennsylvania Avenue NW
Washington, D.C. 20547
Telephone: Area code 202—DUpont 3-2898

Department of State Building, 1st floor
21st and C Streets NW
Washington, D.C. 20520
Telephone: Area code 202—DUpont 3-4004

(Public access to building controlled by security regulations.)

Chicago Branch
Room 1463—14th floor
Federal Office Building
219 South Dearborn Street
Chicago, Illinois 60604
Telephone: Area code 312—353-5133

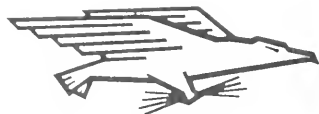
Kansas City Branch
Room 135, Federal Office Building
601 East 12th Street
Kansas City, Missouri 64106
Telephone: Area code 816—374-2160

San Francisco Branch
Room 1023, Federal Office Building
450 Golden Gate Avenue
San Francisco, California 94102
Telephone: Area code 415—556-6657

UNITED STATES
GOVERNMENT PRINTING OFFICE

DIVISION OF PUBLIC DOCUMENTS
WASHINGTON, D.C. 20402

OFFICIAL BUSINESS



POSTAGE AND FEES PAID
U.S. GOVERNMENT PRINTING OFFICE

Ref.

MONTHLY CATALOG

UNITED STATES

GOVERNMENT PUBLICATIONS

NOVEMBER 1969

Entries 14970-16527

BERNAN

DISTRIBUTION OF PUBLICATIONS

In ordering publications listed in this catalog, it should be noted that *only* those marked with an asterisk (*) are obtainable from the Superintendent of Documents.

Publications marked with a farad (Φ) are sold by the Clearinghouse for Federal Scientific and Technical Information, Springfield, Va. 22151.

Where a single dagger (\dagger) is the distribution symbol, application should be made directly to the department or bureau issuing the document.

* For sale by SUPERINTENDENT OF DOCUMENTS

Φ For sale by Clearinghouse for Federal Scientific and Technical Information, Springfield, Va. 22151

\dagger Distribution made by Issuing Office. Not definitely available if unaccompanied by a price

\ddagger Printed for Official Use
(not available for distribution)

● Sent to Depository Libraries

SIZES OF PUBLICATIONS

Symbols used to designate sizes of publications listed in this catalog are as follows:

4°-----	6-12 inches high and width more than $\frac{3}{4}$ of height
large 4°-----	over 12 inches high and width more than $\frac{3}{4}$ of height
small 4°-----	under 6 inches high and width more than $\frac{3}{4}$ of height
8°-----	8-10 inches in height (size not given in entry except where publication is narrow or oblong)
large 8°-----	10-12 inches in height
12°-----	7-8 inches in height
16°-----	6-7 inches in height
24°-----	5-6 inches in height
32°-----	4-5 inches in height
48°-----	up to 4 inches high
f°-----	above 12 inches in height
narrow-----	width less than $\frac{3}{5}$ of height
oblong-----	width more than height

MONTHLY CATALOG



OF UNITED STATES

GOVERNMENT PUBLICATIONS

NOVEMBER 1969

Number 898

Entries 14970-16527

Issued by the SUPERINTENDENT OF DOCUMENTS

U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 : 1969

L.C. Card 4-18088

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT
PRINTING OFFICE, WASHINGTON, D.C. 20402. PRICE 75 CENTS PER COPY
EXCEPT DECEMBER (INDEX) ISSUE, WHICH VARIES IN PRICE
SUBSCRIPTION PRICE \$7 PER YEAR (INCLUDING INDEX)
\$1.75 ADDITIONAL FOR FOREIGN MAILING

PREVIEWS

The following publications are in the process of being printed. Advance sales orders may be placed for these publications. Orders will be scheduled and copies mailed as soon as stocks are received. It is not possible to estimate the lapse of time before the publications will actually appear. All information in regard to title, series, classification, distribution, and price given in these listings is preliminary and subject to change when the publications actually come from the press. Those so marked will be sent to depository libraries, providing, that at the time of going to press, the libraries were on list to receive the items under which these publications will be distributed.

- Air almanac, May-August 1970.** (Naval Observatory.) \$3.75. ● D 213.7: 970/2
- Architectural and building construction technology, suggested 2-year post high school curriculum.** (Education Office, OE-S0062.) \$1.50. ● FS 5.280: S0062
- Computer-based vocational guidance systems.** (Education Office, OE-25053.) \$1.25. ● FS 5.225: 25053
- Consultation in mental health and related fields, bibliography.** (Public Health Service, Publication 1920.) 50c. ● FS 2.22/13: M 52/9
- Credit manual for Federal Credit Unions.** [Revised 1969.] (Federal Credit Unions Bureau, FCU 548.) 75c. ● FS 3.306/2: C 86/969
- Digest of insurable loans.** (Housing and Urban Development Department, F/MP-91.) 75c. ● HH 1.28: 91
- Education in changing Mexico.** (Education Office, OE-14139.) 70c. ● FS 5.214: 14139
- Electronic technology, suggested 2-year post high school curriculum.** (Education Office, OE-S0008-A, revised.) \$1.25. ● FS 5.280: S0009-A/2
- Folklore of the North American Indians.** (Library of Congress.) \$2.25. ● LC 2.2: In 25
- General information concerning patents.** [Revised 1969.] (Patent Office.) 30c. ● C 21.2: P 27/969
- Good training, good jobs, MDTA water pollution control operator.** (Education Office, OE-S7048.) 10c. ● FS 5.287: S7048
- Grasshopper control.** (Agriculture Department, Farmers' bulletin 2193, revised.) 10c. ● A 1.9: 2193/4
- Heavy construction equipment mechanic, suggested guide for training course.** (Education Office, OE-S7044.) 50c. ● FS 5.287: S7044
- Heavy oil reservoirs in Arkansas.** (Mines Bureau, Information circular 8428.) \$1.75. ● I 28.27: 8428
- Horn flies on cattle, how to control them.** (Agriculture Department, Leaflet 388, revised.) 10c. ● A 1.35: 388/8
- International Indian Ocean expedition, volume 4.** (Coast and Geodetic Survey.) \$1.50. ● C 4.2: In 2/2/v.4
- List of Bureau of Mines Publications and articles, Jan. 1, 1968-Dec. 31, 1968.** (Mines Bureau.) \$1.25. ● I 28.5: 968
- Marine infantry regiment.** [Revised August 1969.] (Marine Corps, Fleet Marine Force Manual 6-2, revised.) \$3.25. ● D 214.9/4: 6-2/2
- Meat and poultry, wholesome for you.** (Agriculture Department, Home and garden bulletin 170.) 10c. ● A 1.77: 170

- Medical radiation information for litigation.** (Public Health Service, DMRE 69-3.) \$3.50. ● FS 2.314/2: 69-3
- Narcotic addicts in Kentucky.** (Public Health Service, Publication 1881.) \$3.00
● FS 2.22: N 16/3
- Naval aviation in World War I.** (Naval Operations Office.) \$1.25. ●
D 207.10/2: Av 5/2
- Pensions and severance pay for displaced workers.** (Arms Control and Disarmament Agency.) \$1.50. ● AC 1.2: P 38
- Potato leafhopper on alfalfa.** (Agriculture Department, Leaflet 521, revised.) 10c. ● A 1.35: 521/2
- Presidential inaugurations, selected list of references.** [Revised 1969.] (Library of Congress.) \$2.00. ● LC 2.2: P 92/3/969
- Privateers in Charleston 1793-1796, account of French palatinate in South Carolina.** (Smithsonian Institution, Smithsonian studies in history and technology 1.) \$3.50. ● SI 1.28: 1
- Published ordinances, firearms.** [Revised 1969.] (Internal Revenue Service, Publication 603.) \$1.25. ● T 22.32: F 51/2/969
- Sanitary food service instructor's guide.** [Revised 1969.] (Public Health Service, Publication 90.) \$1.50. ● FS 2.6/2: F 73/3/969
- Science and cancer.** [Revised 1969.] (Public Health Service, Publication 1162.) \$1.25. ● FS 2.22: C 16/25/969
- Silver in United States.** (Mines Bureau, Information circular 8427.) 45c. ●
I 28.27: 8427
- Surveying our public lands.** [Revised 1969.] (Lands Management Bureau.) 15c. ● I 53.2: P 96/7/969
- Tests of overseas shipments of California citrus fruit.** (Agriculture Department, Marketing research report 830.) 20c. ● A 1.82: 830
- Training food service personnel for hospitality industry.** (Education Office, OE-S2018.) 65c. ● FS 5.282: 82018
- Travel, entertainment and gift expenses.** [Revised 1969.] (Internal Revenue Service, Publication 463.) 20c. ● T 22.19: T 69/2/969
- Trout farming.** (Agriculture Department, Leaflet 552.) 10c. ● A 1.35: 552

Contents

Previews -----	III
Abbreviations, Explanation-----	VI
General Information-----	VII
How To Order Publications-----	VIII
New Classification Numbers-----	IX
Corrections for Previous Monthly Catalogs -----	X
List of Government Authors-----	XIII
Monthly Catalog-----	1
Index -----	101

Abbreviations

add_____	addition, addendum, addenda.	n. d. _____	no date.
amdt., amdts. _____	amendment, amendments.	n. p. _____	no place.
app. _____	appendix, appendixes.	no., nos. _____	number, numbers.
bk., bks. _____	book, books.	p. _____	page, pages.
chap. _____	chapter, chapters.	p. of pl. _____	pages of plates.
Cong. _____	Congress.	par., pars. _____	paragraph, paragraphs.
Dept. _____	Department.	pl. _____	plate, plates.
doc. _____	document.	por. _____	portrait, portraits.
facsim. _____	facsimile, facsimiles.	pt., pts. _____	part, parts.
fy. _____	fiscal year.	rp. _____	report.
G.H.A. _____	Greenwich hour angle.	S. _____	Senate, Senate bill.
H. _____	House.	S. Con. Res. _____	Senate concurrent resolution.
H. Con. Res. _____	House concurrent resolution.	S. doc. _____	Senate document.
H. doc. _____	House document.	S. ex. doc. _____	Senate executive document.
H. ex. doc. _____	House executive document.	S. ex. rp. _____	Senate executive report.
H. J. Res. _____	House joint resolution.	S. J. Res. _____	Senate joint resolution.
H. R. _____	House of Representatives, House bill.	S. Res. _____	Senate resolution.
H. Res. _____	House resolution.	S. rp. _____	Senate report.
H. rp. _____	House report.	sec. _____	section, sections.
il. _____	illustration, illustrations.	sess. _____	session, sessions.
in. _____	inch, inches.	Stat. L. _____	Statutes at large.
lat. _____	latitude.	supp. _____	supplement.
long. _____	longitude.	tab. _____	table, tables.
m. _____	mile.	Treas. _____	Treasury.
		v. _____	volume, volumes.
		vs., v. _____	versus.

Common abbreviations for the names of States, months, etc., are also used.

An explanation of the symbols used to designate sizes of publications is given on the inside of the front cover.

Explanation

The individual issuing department, bureau, office, or agency is considered the publisher of Government publications.

Words and figures enclosed in brackets [] in titles are given for information, but do not appear on the title pages of the publications cataloged. Place and printer are not given for publications printed at the United States Government Printing Office, Washington, D.C., or at Government departmental and field printing plants. The dates given with Senate and House documents and reports are the dates on which they were ordered to be printed. Usually the printing promptly follows the ordering, but various causes sometimes make delays.

Under provisions of the Printing Act of January 12, 1895, all Government publications, except administrative and confidential (or restricted), are entered in the Monthly Catalog.

The L.C. card number appended to some of the entries is for those libraries ordering printed cards from the Library of Congress. The number at the extreme right of an entry indicates the classification of the publication in the Office of the Superintendent of Documents.

General Information

The Superintendent of Documents, Government Printing Office, Washington, D.C., is authorized by law to sell copies of Government publications and to allow a discount of 25 percent to book dealers and also to quantity purchasers of 100 or more copies of a single publication on condition that they will adhere to the public sales price set by the Superintendent of Documents and that publications shall not be overprinted with any advertising matter.

Publications cannot be supplied free to individuals nor forwarded in advance of payment.

PRICE LIST

There is no general price list of public documents, but numerous lists have been prepared on special subjects and any of these will be furnished free, on application, by subject or subjects concerning which information is desired. It will also be noted that current publications which are for sale are listed in this catalog.

LIST OF SELECTED PUBLICATIONS

In addition to the price lists, the Documents Office issues a biweekly list of Selected United States Government publications for sale by the Superintendent of Documents. Each list is arranged alphabetically by subjects, with annotations and prices, and may be obtained free upon application to the Superintendent of Documents.

CONGRESSIONAL BILLS, DOCUMENTS, AND REPORTS

More than 12,000 different bills are usually introduced during a Congress, and there are additional prints on many during the progress of the legislation. With the exception of a very few—such as revenue bills—the demand is an unknown quantity and on most of them we receive no orders, which makes it impossible to print a sales supply. It may be that a copy could be obtained from your Congressman.

A difficult problem is also presented in providing a supply of congressional documents, hearings, and reports because there are approximately 6,000 of this class of publications issued during a Congress and only a few of them are called for. We will attempt to print for sale a few of the more important ones, but if not priced the only possible source would be from your Congressman.

HOW TO ORDER PUBLICATIONS

Publications entered in this catalog that are for sale by the Superintendent of Documents are indicated by an asterisk (*) preceding the price. Those for sale by the Clearinghouse for Federal Scientific and Technical Information are indicated by a farad (Φ) preceding the price. A black dot (●) indicates that the publication has been or will be sent to depository libraries. A dagger (†) indicates that application should be made to the department, bureau, or agency issuing the document. A double dagger (§) indicates that the document is printed for official use and is not obtainable. Whenever additional information concerning the method of procuring a document seems necessary, it will be found under the name of the bureau by which it was published.

In ordering a publication from the Superintendent of Documents, give (if known) the name of the publishing department, bureau, or agency, and the title, together with the classification number which is added to the entry at the extreme right; order the congressional documents and reports by the title, together with the document or report number and the Congress, e.g., H. Doc. 103, 88th Congress.

Do not use the L.C. card number in ordering a publication from the Superintendent of Documents.

HOW TO REMIT

Remittances for documents marked with an asterisk (*) should be made to the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, by coupon, postal money order, express order, or check. Publications cannot be mailed in advance of receipt of remittance. Currency may be sent at sender's risk. Foreign remittances should be made either by international money order or draft on an American bank.

Foreign money, defaced or smooth coins, will not be accepted. Do not send postage stamps.

For the convenience of the general public, coupons in the denomination of 5¢ that are good until used in exchange for Government publications sold by the Superintendent of Documents, may be purchased from this office. Address order to Superintendent of Documents, Government Printing Office, Washington, DC 20402.

Persons who make frequent purchases from the Superintendent of Documents may find a deposit account convenient. Deposits of \$25.00 or more are accepted against which orders may be placed without making individual remittances or first obtaining quotations. Order blanks are furnished for this purpose. After the handling of the order has been completed, it will be returned showing the publications supplied, explanations regarding those not sent, the amount of charge, and the balance on deposit.

No charge is made for postage on documents forwarded to points in United States and possessions, or to Canada, Cuba, Mexico, and certain Central and South American countries. To other countries the regular rate of postage is charged, and remittances must cover such postage. In computing foreign postage, add one-fourth of the price of the publication.

LIBRARY CLASSIFICATION IN DOCUMENTS OFFICE

The classification given at the right of entries for departmental publications is that used in the Library of the Division of Public Documents. It is also used as a catalog number for sales stock of this office. The shilling mark (/) separates what would ordinarily be superior or inferior numbers or letters, as it is not practicable to print these numbers or letters as superiors or inferiors in the Monthly Catalog.

New Classification Numbers

	Forest Service.
A 13.1/2: date_____	California Region, progress reports.
	Soil Conservation Service.
A 57.55: CT_____	Plant materials annual progress reports.
A 57.56: CT_____	Habitat management for [various animals].
	Consumer and Marketing Service.
A 88.30/7: date_____	Prosecutions and seizures under the Federal seed act.
	Weather Bureau.
C 30.86: date_____	Observers quarterly.
	Maritime Administration.
C 39.212/3: date_____	New ship construction, oceangoing ships of 1,000 gross tons and over in United States and foreign shipyards.
	United States Travel Service.
C 47.15: -15: Reserved	
C 47.15/2: date_____	Pleasure and business visitors to U.S. by port of entry and mode of travel.
	Defense Department.
D 1.1/3: date_____	Annual report of Secretary of Defense on Reserve Forces.
D 1.41: v. nos. & nos_____	High School News Service report (monthly during school year).
	Army Department.
D 101.69: v. nos. & nos_____	Army logistician (bimonthly).
D 101.70: date_____	Army Material Command coordinated recruitment program annual progress report.
	Medicine and Surgery Bureau (Navy).
D 206.10/2: nos_____	U.S. Naval Submarine Medical Center, Submarine Base, Groton, Conn.: Memorandum reports.
D 206.20: CT_____	Bibliographies and lists of publications.
D 206.21: nos_____	Neuropsychiatric Research Unit, San Diego, Calif.: Reports.
	Marine Corps (Navy).
D 214.17: nos_____	Museum manuscript register series.
	Air Force Department.
D 301.62/2: CT_____	Bibliographies and lists of publications.
	Federal Power Commission.
FP 1.31: CT_____	Evaluation report, water resources appraisal for hydroelectric licensing.
	Health, Education, and Welfare Department.
FS 1.35: date_____	Cost of clean air, report of Secretary of Health, Education, and Welfare to Congress in compliance with Public law 90-148, Air quality act of 1967.
	National Institutes of Health.
FS 2.22/59-2: date_____	Epilepsy abstracts (compilations).
	Public Health Service.
FS 2.60/12: date_____	National Communicable Disease Center salmonella surveillance, annual summary.
FS 2.93/6: v. nos. & nos_____	APTIC [Air Pollution Technical Information Center] bulletin.
FS 2.317: date_____	Grants-in-aid and other financial assistance programs, Health Services and Mental Health Administration.

FS 2.318 : -319 : Reserved	
FS 2.320 : nos-----	Emergency health services digest. Social Security Administration.
FS 3.55 : nos-----	HIR (series). Education Office.
FS 5.85 : date-----	National Advisory Council on Vocational Education annual report. Federal Trade Commission.
FT 1.12/2 : nos-----	Advisory opinion digests. Housing and Urban Development Department.
HH 1.15/4 : nos-----	HUD newsletter. Federal Housing Administration.
HH 2.6/7 : nos-----	Technical standards training guides. National Park Service.
I 29.9/4a : CT-----	Compilations of administrative policies (separates). Sport Fisheries and Wildlife Bureau.
I 49.72 : Reserved	
I 49.73 : date-----	Accident control reports (annual). Labor Department.
L 1.7/5 : nos-----	Occupational guides. NOTE.—See, for earlier similar class, L 7.32 : (CT).
L 34.8 : CT-----	Training and Employment Service. Handbooks, manuals, guides. Library of Congress.
LC 1.30/1-2 : date-----	India, accessions list, annual supplement, cumulative list of serials. National Aeronautics and Space Administration.
NAS 1.44 : v. nos. & nos-----	Computer program abstracts (quarterly). Mission reports, MR—(series).
NAS 1.45 : nos-----	State Department.
S 5.48/14 : CT-----	U.S. National Commission for UNESCO memos. Transportation Department.
TD 1.14 : CT-----	Transportation forecast (series). National Transportation Safety Board.
TD 1.109/4 : date-----	Briefs of accident involving aerial applications operations, U.S. general aviation.
TD 1.109/5 : date-----	Briefs of accidents involving rotorcraft, U.S. general aviation.
TD 1.109/6 : date-----	Briefs of accidents involving amateur built (homebuilt) aircraft, U.S. general aviation.
TD 1.109/7 : date-----	Briefs of accidents involving mid-air collisions, U.S. civil aviation. Public Roads Bureau.
TD 2.121/2 : CT-----	Development of multiple use facilities on highway right-of-way [by area]. National Highway Safety Bureau.
TD 2.210/4 : nos-----	Highway safety literature indexes.
TD 2.212 : date-----	Executive summaries, National Highway Safety Bureau contractors report (annual). Motor Carrier Safety Bureau.
TD 2.303 : v. nos. & nos-----	On guard, Bureau of Motor Carrier Safety bulletin. Federal Aviation Administration.
TD 4.32 : nos-----	National Aviation Facilities Experimental Center, Atlantic City, New Jersey : Report NA—(series). Tennessee Valley Authority.
Y 3.T25 : 38/nos-----	Division of Water Control Planning : Reports.

Corrections for Previous Monthly Catalogs

Sept. 1966. Entry 13245, Defense standardization manual M 200B, Standardization, policies, procedures and instructions. Change designation to read Defense standardization manual 4120.3-M, and the class to read D 7.6/3 : 4120.3-M. Redesignated by the Defense Department.

- Feb. 1967. Entry 2391, America's department of natural resources. Correct class to read I 1.72: 39/4. Add to entry, Conservation bulletin 39.
- Mar. 1968. Entry 4332, Aviation in United States Navy. 3d edition. Correct class to read D 207.10/2: Av 5/968.
- Nov. 1968. Entry 16307, Briefs of accidents involving aerial application operations, 1966. Correct class to read TD 1.109/4: 966.
- Entry 16334, Briefs of accidents involving rotorcraft, 1966. Correct class to read TD 1.109/5: 966.
- Apr. 1969. Entry 6109, Briefs of accidents involving amateur built (homebuilt) aircraft, 1966. Correct class of read TD 1.109/6: 966.
- Entry 6110, Briefs of accidents involving mid-air collisions, 1966. Correct class to read TD 1.109/7: 966.
- June 1969. Entry S211, Evaluation report, water resources appraisal for hydroelectric licensing, Wilder, Bellow Falls, Vernon Developments. Correct class to read FP 1.31: W 64.
- July 1969. Entry 9122, 1970 census users guide. Correct item number to read 146-A.
- Sept. 1969. Entry 11863, Agricultural information bulletin. Correct series designation to read Agriculture information bulletin; and correct class to read A 1.75:(nos.).
- Entry 12977, Radar instruction handbook. Change distribution from † to ‡. Copies are not available.
- Entry 13514, Statistical summary and analysis of foreign visitor arrivals, U.S. citizen and non-U.S. citizen departures, Apr. and 1st 4 months, 1969. Correct class to read C47.15: 969/4.

List of Government Authors

Administrative Office of United States Courts.....	14970
Agriculture Department.....	14982
Agricultural Research Service.....	14974
Consumer and Marketing Service.....	15479
Cooperative State Research Service.....	15484
Economic Research Service.....	15617
Foreign Agricultural Service.....	15746
Forest Service.....	15749
Soil Conservation Service.....	16422
Statistical Reporting Service.....	16486
Arms Control and Disarmament Agency.....	15032
Atomic Energy Commission.....	15062
Civil Aeronautics Board.....	15125
Civil Service Commission.....	15134
Commerce Department.....	15159
Business and Defense Services Administration.....	15085
Census Bureau.....	15089
Economic Development Administration.....	15533
Environmental Science Services Administration.....	15670
Coast and Geodetic Survey.....	15151
Weather Bureau.....	16527
International Commerce Bureau.....	15876
Maritime Administration.....	16047
National Bureau of Standards.....	16223
Patent Office.....	16321
United States Travel Service.....	16519
Congress.....	15185
Atomic Energy Joint Committee.....	15215
House of Representatives.....	15216
Appropriations Committee.....	15299
Armed Services Committee.....	15302
Banking and Currency Committee.....	15308
Education and Labor Committee.....	15311
Foreign Affairs Committee.....	15316
Government Operations Committee.....	15317
House Administration Committee.....	15319
Interior and Insular Affairs Committee.....	15320
Internal Security Committee.....	15322
Interstate and Foreign Commerce Committee.....	15323
Public Works Committee.....	15326
Science and Astronautics Committee.....	15327
Small Business, Select Committee on.....	15333
Veterans' Affairs Committee.....	15335
Ways and Means Committee.....	15337
Internal Revenue Taxation Joint Committee.....	15339

Congress—Continued	
Senate	15351
Aging, Special Committee on	15414
Appropriations Committee	15415
Armed Services Committee	15416
Banking and Currency Committee	15418
Commerce Committee	15425
District of Columbia Committee	15430
Finance Committee	15432
Foreign Relations Committee	15450
Government Operations Committee	15455
Interior and Insular Affairs Committee	15461
Judiciary Committee	15464
Labor and Public Welfare Committee	15470
Nutrition and Human Needs, Select Committee on	15477
Defense Department	15492
Air Force Department	15008
Air Force Medical Service	15024
Armed Forces Information Service	15031
Army Department	15033
Army Medical Service	15060
Civil Defense Office	15131
Engineers Corps	15646
Lake Survey	16032
Military History, Office of Chief of	16070
Joint Chiefs of Staff	
Defense Communications Agency	15491
National Guard Bureau	16238
Navy Department	16318
Marine Corps	16041
Medicine and Surgery Bureau	16055
Naval Facilities Engineering Command	16289
Naval Operations Office	16304
Naval Observatory	16292
Naval Oceanographic Office	16293
Naval Ordnance Systems Command	16309
Naval Personnel Bureau	16310
Naval Research Office	16314
Equal Employment Opportunity Commission	15677
Federal Communications Commission	15697
Federal Council for Science and Technology	15699
Federal Deposit Insurance Corporation	15701
Federal Home Loan Bank Board	15704
Federal Maritime Commission	15710
Federal Power Commission	15718
Federal Reserve System Board of Governors	15726
Federal Trade Commission	15738
General Accounting Office	15777
General Services Administration	15791
Federal Supply Service	15735
National Archives and Records Service	16213
Public Buildings Service	16334

Health, Education, and Welfare Department.....	15819
Education Office.....	15627
Public Health Service.....	16335
National Institutes of Health.....	16252
Social and Rehabilitation Service.....	16406
Aging Administration.....	14971
Children's Bureau.....	15122
National Center for Social Statistics.....	16235
Social Security Administration.....	16409
Federal Credit Unions Bureau.....	15700
Housing and Urban Development Department.....	15822
Federal Housing Administration.....	15707
Interior Department.....	15848
Fish and Wildlife Service	
Commercial Fisheries Bureau.....	15182
Sport Fisheries and Wildlife Bureau.....	16441
Federal Water Pollution Control Administration.....	15740
Geological Survey.....	15792
Indian Affairs Bureau.....	15847
Mines Bureau.....	16072
National Park Service.....	16267
Reclamation Bureau.....	16391
Interstate Commerce Commission.....	15894
Joint Publications Research Service.....	15897
Justice Department.....	15992
Immigration and Naturalization Service.....	15845
Narcotics and Dangerous Drugs Bureau.....	16117
Labor Department.....	15994
Employees Compensation Bureau.....	15645
Labor Standards Bureau.....	16007
Labor Statistics Bureau.....	16012
Manpower Administration	
Apprenticeship and Training Bureau.....	15029
Training and Employment Service.....	16504
Veterans Reemployment Rights Office.....	16525
Library of Congress.....	16033
Copyright Office.....	15485
Missouri Basin Inter-Agency Committee.....	16111
National Aeronautics and Space Administration.....	16118
National Science Foundation.....	16280
Post Office Department.....	16324
President of United States.....	16333
Executive Office of the President	
Economic Opportunity Office.....	15536
National Council on Marine Resources and Engineering Development	16237
Science and Technology Office.....	16396
Renegotiation Board.....	16395
Ship Structure Committee.....	16400
Small Business Administration.....	16401
Smithsonian Institution.....	16403
American Historical Association.....	15028
State Department.....	16459
International Development Agency.....	15892

Tariff Commission.....	16493
Tax Court.....	16496
Tennessee Valley Authority.....	16497
Transportation Department.....	16505
Coast Guard.....	15154
Federal Aviation Administration.....	15678
Air Traffic Service.....	15025
Systems Research and Development Service.....	16487
Federal Highway Administration.....	15702
Motor Carrier Safety Bureau.....	16114
National Highway Safety Bureau.....	16239
Public Roads Bureau.....	16380
Federal Railroad Administration.....	15725
National Transportation Safety Board.....	16282
Treasury Department.....	16511
Customs Bureau.....	15490
Internal Revenue Service.....	15865
Veterans Administration.....	16521

Monthly Catalog

NO. 898 • NOVEMBER 1969

ADMINISTRATIVE OFFICE OF UNITED STATES COURTS Washington, DC 20543

- 14970 Report of proceedings of Judicial Conference of United States, Mar. 13–June 10, 1969. vii+47 p. [Also issued as H. doc. 152, 91st Cong., 1st sess.] † • Item 729
L.C. card 41-18702 Ju 10.10/2: 969

AGING ADMINISTRATION, Health, Education, and Welfare Dept Washington, DC 20201

- 14971 Federal financial assistance for projects in aging: Applied research grants of National Institute of Mental Health, Public Health Service. [Jan. 1968.] [4] p. 4° ([AoA publication 715]; NIMH, Research.) [Issued with perforations.] ‡ FS 17.310/2: M 52/2
- 14972 — Community service and continuing education program of Office of Education. [Feb. 1968.] [6] p. 4° ([AoA publication 717]; OE Continuing education.) [Issued with perforations.] ‡ FS 17.310/2: C 73
- 14973 — Cooperative research and demonstration grants of Social and Rehabilitation Service in cooperation with Social Security Administration. [Feb. 1968.] [4] p. 4° ([AoA publication 721]; SRS, SSA, research demonstration.) [Issued with perforations.] ‡ FS 17.310/2: So 1

AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, DC 20250

ARS (series). A 77.15: (nos.)

- 14974 42-159. Nectrotropic movement as false wilt symptom of cotton [with list of literature cited]; by Albert C. Trowse, jr. July 1969. 11 p. il. 4° †
L.C. card 70-604027
- 14975 74-48. Egg pasteurization manual [with list of literature cited; prepared in Poultry Laboratory of Western Utilization Research and Development Division]. Mar. 1969. iv+47 p. il. 4° † Western Utilization Research and Development Division, Albany, CA 94710.
L.C. card 71-604030
- 14976 Plant quarantine import requirements of Cyprus. Oct. 10, 1969. 5 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary dated Oct. 24, 1962.] † A 77.329: C 99/969
- 14977 Plant quarantine import requirements of foreign countries for logs and lumber. Oct. 1, 1969. 6 p. (Plant Quarantine Division, Hyattsville, Md.) [Issued with perforations. Supersedes summary dated Mar. 1, 1965.] †
A 77.306: L 82/969
- 14978 Plant quarantine import requirements of Netherlands. Sept. 22, 1969. 4 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary dated May 11, 1962, and TMs dated Feb. 7, 1964, Mar. 27, 1964, Feb. 18, 1966, and July 22, 1966.] † A 77.329: N 382/969

•For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

Page 1

GOVERNMENT PUBLICATIONS

- 14979 Plant quarantine import requirements of Turkey. Sept. 19, 1969. 6 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary dated Dec. 28, 1967.] † A 77.329: T 847/969
- 14980 Publications and patents, Eastern Utilization Research and Development Division, publication nos. 2972-3103, Jan.-June 1969. [July 1969.] 39 p. 4° † A 77.17/4: 969
- 14981 U.S.D.A. summary of registered agricultural pesticide chemical uses: v. 3, Insecticides, repellents, acaricides. 3d edition. [May 31, 1969.] [1]+xiv p.+[469] leaves, 4° (Pesticides Regulation Division.) [Includes additions, deletions, and supplements since issuance of 2d edition July 1, 1964. Issued in looseleaf form.] * Paper, \$6.75. ● Item 44
L.C. card 61-60934 A 77.302: P 43/4/969/v.3

AGRICULTURE DEPARTMENT

Washington, DC 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

- 14982 Address by Assistant Secretary of Agriculture Clarence D. Palmby at Norfolk Chamber of Commerce Farm City luncheon, Norfolk, Va., June 20, 1969. [1969.] 13 p. 4° (USDA 1909-69; 6952.) † A 1.40: P 18
- 14983 Address by Under Secretary of Agriculture J. Phil Campbell before Tobacco Assn. of United States and Leaf Tobacco Exporters Assn., White Sulphur Springs, W. Va., June 24, 1969. [1969.] 13 p. 4° (USDA 1949-69; 6987.) † A 1.40: C 15/3
- Agriculture handbooks. ● Item 3 A 1.76: (nos.)
- 14984 23. Employee handbook, USDA. [1969.] cover title, iv+57 p. il. (Office of Personnel.) [Text on p. 2-4 of cover.] ‡
L.C. card 57-3301
- 14985 191. U.S. Inspected meatpacking plants, guide to construction, equipment, layout. [Revised Aug. 1969.] [1969.] cover title, iv+73 p. il. 4° (Consumer and Marketing Service.) * Paper, \$1.50.
L.C. card 73-603962
- 14986 363. Summary of reported estimates of heritabilities and of generic and phenotypic correlations for traits of chickens [with list of references; by Terry B. Kinney, jr.]. Oct. 1969. il+49 p. 4° (Agricultural Research Service.) * Paper, 50c.
L.C. card 77-604045
- 14987 365 Major statistical series of Department of Agriculture, how they are constructed and used; v. 3. Gross and net farm income [with list of references; by Mardy Myers]. Sept. 1969. iv+17 p. 4° ([Economic and Statistical Analysis Division, Economic Research Service.]) [Updates Agriculture handbook 118, major statistical series of Department of Agriculture, published 1957-60.] * Paper, 30c.
L.C. card 57-246

Agricultural information bulletins. ● Item 4 A 1.75: (nos.)

- 14988 136. In your service, the work of Uncle Sam's forest rangers. [Revised June 1965; slightly revised July 1969.] [1969.] [24] p. il. 4° (Forest Service.) * Paper, 25c.
- 14989 288. Cooperative State-Federal research in agriculture and forestry for better agriculture and better living; [prepared by Cooperative State Research Service.]. [Revised Sept. 1969.] [1969.] 14 p. il. †
L.C. card 75-603984

- 14990 Farmer and the consumer. July 1969. 6 p. 4° † A 1.2: F 22/16/969

Farmer's bulletin.

- 14991 2158. Chemical control of brush and trees; [prepared by Crops Research Division and Agricultural Engineering Research Division, Agricultural Research Service.]. [Apr. 1961, slightly revised Aug. 1969.] [1969.] 23 p. il.
* Paper, 20c. ● Item 9
L.C. card 78-604064 A 1.9: 2158/4

- 14992 Guides for writing and evaluating quantity recipes for type A school lunches [with list of references; prepared by School Lunch Division, Food and Nutrition Service and Human Nutrition Research Division, Agricultural Research Service]. Sept. 1969. cover title. [1]+49 p. 4° † ● Item 11-C
A 1.11/3: Sch 6

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

Home and garden bulletin.

- 14993 169. How to buy lawn seed. [Aug. 1969.] [6] p. il. narrow 8° ([Consumer and Marketing Service.]) * Paper, 10c. ● Item 11 A 1.77: 169

Leaflets. ● Item 12

A 1.35: (nos.)

- 14994 430. Cockroaches, how to control them; [prepared by Entomology Research Service, Agricultural Research Service]. [Revised Oct. 1969.] [1969.] 8 p. il. * Paper, 10c.
L.C. card 70-604038
- 14995 450. Horse bots; [prepared by Entomology Research Division, Agricultural Research Service]. [Revised Sept. 1969.] [1969.] 8 p. il. * Paper, 10c.
L.C. card 76-603979
- 14996 513. Chip-bud method of propagating vinifera grape varieties on rootstocks; [by F. N. Harmon and J. H. Weinberger]. [July 1962, slightly revised Sept. 1969.] [1969.] [6] p. il. ([Crops Research Division, Agricultural Research Service.]) †

Marketing research report.

- 14997 839. Feasibility of shipping fresh apricots and prunes jumble packed in fiber-board boxes; [by James B. Fountain and Roy M. Hovey]. [1969.] [2] +9 p. il. 4° ([Transportation and Facilities Research Division, Agricultural Research Service.]) * Paper, 15c. ● Item 13 B A 1.82: 839
L.C. card 78-603828

Miscellaneous publication.

- 14998 972. Your career as extension agent. [Revised Sept. 1969.] [1969.] [8] p. il. narrow 8° (Federal Extension Service.) † A 1.38: 972/2

PA [Program aid] (series).

A 1.68: (nos.)

- 14999 533. What Department of Agriculture can do when natural disaster strikes. [Revised Aug. 1969.] [1969.] [8] p. il. narrow 8° † ● Item 14-A
- 15000 818. Soil Conservation Service [activities]. [Sept. 1967, slightly revised Aug. 1969.] [1969.] [8] p. il. narrow 8° † ● Item 14-A
- 15001 912-S. El libro colorante de las comidas buenas. [Apr. 1969.] [32] p. oblong 8° (Consumer and Marketing Service.) [Formerly C&MS-61. Published in support of Federal Food stamp and commodity distribution programs.] †
- 15002 914. You're on camera in color, television handbook for extension workers; [by Joe Tonkin.]. [Oct. 1969.] [2] +21 p. il. 4° (Federal Extension Service.) [Cooperative Extension Work: Agriculture Department and State land-grant universities cooperating. Some illustrations are colored.] * Paper, 45c. ● Item 14-A
- 15003 931. Moving equipment, make sure it's clean first! destructive plant pests often hitchhike in dirt clinging to used farm and construction equipment. [Aug. 1969.] [2] p. il. oblong 16° folded into oblong 48° size (Plant Pest Control Division, Agricultural Research Services.) † ● Item 14-A
- 15004 Plan of work: Survey of watersheds of Island of Hawaii. May 1969. [1] +1+28 leaves il 4° (Economic Research Service, Forest Service, Soil Conservation Service.) [Prepared in cooperation with State of Hawaii, Department of Land and Natural Resources.] † A 1.2: H 31

Production research reports. ● Item 13-C

A 1.84: (nos.)

- 15005 110. Fall armyworm, use of virgin female traps to detect males and to determine seasonal distributions; [by J. Wendell Snow and W. W. Copeland.]. [Aug. 1969.] [2] +9 p. il. 4° (Entomology Research Division, Agricultural Research Service.) [Prepared in cooperation with University of Georgia College of Agriculture Experiment Stations.] * Paper, 15c.
- 15006 111. Developing resistant plants, ideal method of controlling insects; [by Philip Luginbill, jr.]. [Oct. 1969.] [2] +14 p. il. 4° ([Entomology Research Division] Agricultural Research Service.) * Paper, 15c.
L.C. card 76-604034

Technical bulletin.

- 15007 1407. Gin-stand research at Stonville, Miss., 1956-66 [with list of literature cited; by A. C. Griffin and O. L. McCaskill.]. [Sept. 1969.] iv+24 p. il. ([Agricultural Engineering Research Division], Agricultural Research Service.) * Paper, 20c. ● Item 16 A 1.36: 1407
L.C. card 70-603850

AIR FORCE DEPARTMENT, Defense Dept.
Washington, DC 20330

- 15008 Aerospace nurse date books, 1970. [1969.] cover title, 32 p. il. oblong 48°
‡ ● Item 424 D 301.2: Ac 8/5/970

♣For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 3

GOVERNMENT PUBLICATIONS

Air Force manual AFM (series).

- 15009 67-9. Supply: Storage manual [with list of applicable references]. Aug. 28, 1969. cover title, [364] p. il. 4° [Issued with perforations.] ‡
 ● Item 421 D 301.7: 67-9/2
- 15010 75-33. See Army Department, Army regulation 55-353.
- 15011 146-5. See Army Department, Technical manual 10-410.

Air Force pamphlet AFP (series).

- 15012 70-1-5. See Defense Department, DOD and NASA guide, incentive contracting guide.
- 15013 Air Force Systems Command. [1969.] cover title, [44] p. il. 4° [Other illustrations on p. 1-3 of cover.] ‡ ● Item 422-B
 D 301.45: Ai 7/2/969

Air Force Systems Command manual AFSCM (series).

- 15014 310-1. Data management: Management of contractor data and reports, v. 1. Policies and procedures, Aug. 30, 1969. cover title, [47] p. il. 4° (Air Force Logistics Command manual AFLCM 310-1.) [Issued with perforations. Supersedes AFSCM/AFLCM 310-1, v. 1, Jan. 16, 1967.] * Paper, 60c. ● Item 421 D 301.45/14: 310-1/2/v.1
- 15015 Mathieu's equation for complex parameters, tables of characteristic values [with list of references]; by G. Blanch and D. S. Clemm. 1969. xx+ [3] +273 p. il. 4° (Aerospace Research Laboratories, Office of Aerospace Research.) * Cloth, \$4.50. ● Item 422-B
 L.C. card 78-602165 D 301.69/5: M 42

OAR (series.) (Office of Aerospace Research.)

- 15016 69-0015. Air Force research objectives 1969, physical sciences, engineering sciences, environmental sciences, life sciences; editor, Jacob Seiden. [1969.] vi+76+[2] p. il. 4° [Text and other illustrations on p. 1-2 of cover.] Φ Paper, \$3.00. ● Item 422-B D 301.69/3: 69-0015

School of Aerospace Medicine: Technical report SAM-TR (series). (Aerospace Medical Division (AFSC) Brooks Air Force Base, Tex.) ‡ D 301.26/13-6: (nos.)

- 15017 69-28. Enamel solubility reduction by stannous hexafluorozirconate [with list of references; by] Ira L. Shannon [and] Vincent A. Segreto. May 1969. cover title, iii+4+[2] p. il. 4° ([Task 775512.])
- 15018 69-29. Effects of atropine on composition of unstimulated human parotid fluid [with list of references; by] Ira L. Shannon. June 1969. cover title, iii+9+[2] p. 4° ([Task 775512.])
- 15019 69-30. Autonomic response to auditory stimulation during sleep; [by] Richard E. McKenzie. June 1969. cover title, iii+7+[2] p. 4° ([Task 775504.])
- 15020 69-31. Pharmacodynamics of radioprotective drug, 2-(1-decylamino) ethanethio-sulfuric acid [with list of references; by] Jose A. Martinez-O'Ferrall [and] George S. Melville, jr. June 1969. cover title, iii+8+[2] p. 4° ([Task 775703.])
- 15021 69-37. Unstimulated human parotid fluid, specific gravity and osmolality [with list of references; by] Ira L. Shannon [and] Vincent A. Segreto. June 1969. cover title, iii+7+[2] p. il. 4° ([Task 775512.])

Special bibliographies. (Air University Library, Maxwell Air Force Base, Ala.)

- 15022 190 (rev.). War, selected references: [compiled by Mary Louise Pitts]. Aug. 1969. 51 p. 4° [Supersedes issue of Aug. 1968.] ‡
 L.C. card 72-604112 D 301.26/11: 190/2
- 15023 United States Air Force occupational handbook for airmen, manual for guidance counselors, 1969-70. [1969.] 40 p. il. 4° [Title on cover is: United States Air Force, airman occupational handbook, 1969-70. Supersedes all previous editions. Some illustrations are colored.] ‡ ● Item 424-F
 L.C. card 57-61444 D 301.6/5: Oc 1/969-70

AIR FORCE MEDICAL SERVICE, Defense Dept. Washington, DC 20330

- 15024 15th annual report of USAF Medical Service, July 1, 1967-June 30, 1968; prepared by [Office of Special Assistant for Information.] Office of Surgeon General, Air Force. [1969.] xvi+262 p. il. 4° ‡ ● Item 428-A
 L.C. card 53-63750 D 304.1: 967-68

*For Sale by Superintendent of Documents
 ‡Distribution Made by Issuing Office
 ‡Official Use. Not Available

AIR TRAFFIC SERVICE, Transportation Dept.
Washington, DC 20553

- 15025 Contractions handbook, [Change] 2. [June 17, 1969.] [20] p. 4° (73-40.1A Chg. 2.) [Effective July 1, 1969. Cancellation date Dec. 1, 1969. Issued in looseleaf form.] *Paper, 20c. ● Item 431-D-1
TD 4.308: C 76/ch.2
- 15026 En route air traffic control, Change 9, [July 3, 1969.] [72] p. 4° (7110.9, Chg. 9.) [Effective Oct. 1, 1969. Cancellation date Jan. 1, 1970. Issued in looseleaf form.] ‡ ● Item 431-D-1
TD 4.308: En 1/ch.9
- 15027 United States of America AIP aeronautical information publication. 3d edition. June 1969. [363] p. il. 4° (Flight Information Division.) [Issued with perforations.] † ● Item 431-D-1
L.C. card 70-604043
TD 4.308: Ae 8/969

AMERICAN HISTORICAL ASSOCIATION, Smithsonian Institution
Washington, DC 20560

- 15028 [Annual report of American Historical Association: 1961, v. 2] Writings on American history, 1959; compiled by National Historical Publications Commission, James R. Masterson, editor, Joyce E. Eberly, assistant editor. [1969.] xv+737 p. [Also issued as H. doc. 386, pt. 2, 87th Cong., 2d sess.] *Cloth, \$4.75. ● Item 915
L.C. card 4-18261
SI 4.1: 961/v.2

Note.—This volume, a classified list of books and articles on United States history that were published during 1959, continues a series begun with the issuance of a volume that listed writings published in 1902. Including the present volume the series consists of 47 volumes covering 49 years. Volumes for years 1904-5 and 1941-47 have not been prepared.

APPRENTICESHIP AND TRAINING BUREAU, Labor Dept.
Washington, DC 20210

- 15029 Apprentice training, sure way to a skilled craft. [Revised July 1969.] [1969.] [8] p. il. narrow 8° *Paper, 15c. ● Item 748 L 23.2: T 68/9
- 15030 Apprenticeship, past and present. Revised 1969. 1969. iii leaves+22 p. il. † ● Item 748
L.C. card L 50-89
L 23.2: Ap 6/19/969

ARMED FORCES INFORMATION SERVICE, Defense Dept.
Washington, DC 20361

DoD [pamphlet].

- 15031 AO-140. Capsule facts for Armed Forces: Maldive Islands [with reading list]. Sept. 1969. 4 p. il. 4° ([Army Dept.]; DA Pam 360-777.) [Adapted from Department of State Background notes series.] † ● Item 312-A
L.C. card 68-61277
D 2.14: AO-140

ARMS CONTROL AND DISARMAMENT AGENCY
Washington, DC 20451

- 15032 8th annual report to Congress, United States Arms Control and Disarmament Agency, Jan. 1-Dec. 31, 1968. [1969.] vi+73 p. il. ([Publication 51.]) *Paper, 40c. ● Item 125-A-4
L.C. card 62-60648
AC 1.1: 968

ARMY DEPARTMENT, Defense Dept.
Washington, DC 20310

- 15033 Army logistician [official magazine of U.S. Army logistics; Thomas A. Johnson, editor-in-chief]. (Army Logistics Management Center.) [Bi-monthly.] *Paper, \$3.00 a yr., 75c. additional for foreign mailing; single copy, 50c. ● Item 322-C
D 101.69: (v.nos.& nos.)
v. 1, no. 1—Sept.-Oct. 1969--

GOVERNMENT PUBLICATIONS

Army regulation AR (series). [Issued with perforations.] ● Item 323

D 101.9: (nos.)

- 15034 55-353. Transportation and travel: Freight descriptions and suffixes. May 1969. cover title, [525] p. il. 4° ([Navy Dept.] NAVSUP PUB 454; Air Force manual AFM 75-33; Marine Corps order MCO P4610.10B; Defense Supply Agency handbook DSAH 4540.1.) [Supersedes AR-353, NAVSUP Pub 454, AFM 75-33, MCO P4610.10A, DSAH 4540.1, Mar. 1966, including all changes.] * Paper, \$4.00.
- 15035 55-356. Transportation and travel: Personal property traffic management regulation [Change] 1. Mar. 19, 1969. [72] p. 4° ([Navy Dept.] NAVSUP Pub. 455, CH-1; [Air Force Dept.] AFR 75-17, C 1; [Marine Corps] MCO P4050.34B, CH-1.) [Supersedes AR 55-42/AFR 75-13, Apr. 16, 1962 including all changes; app. 2, AR 55-35S/NAVSUP Pub 445/MCO P4600.9, Oct. 1, 1962.] * Paper, 65c.

- 15036 Army ROTC flight training. [June 1969.] [8] p. il. narrow 8° [Insert, Participating colleges and universities, list, 2 p., was issued also.] †
● Item 325 D 101.2: R 31/15

- 15037 Army ROTC scholarship program. [1969.] cover title, 20 p. il. [Text on p. 2-3 of cover. Illustrations are colored.] † ● Item 325.
D 101.2: R 31/13/969

Cold Regions Research & Engineering Laboratory, Hanover, NH: Research report. (Army Materiel Command.)

- 15038 242. Attenuation of visible light by falling snow [with list of literature cited; by] Harold W. O'Brien. June 1969. iv+27+[1] p. il. 4° (DA task 1T061102B32A02; Terrestrial Sciences Center.) † D 103.33/3: 242

— Technical report. (Army Materiel Command.)

- 15039 216. Determining dynamic properties of snow and ice by forced vibration [with list of literature cited; by] North Smith. June 1969. v+17+[1] p. il. 4° (DA task 1T062112A13001; Terrestrial Sciences Center.) †
D 103.33: 216

Cold regions science and engineering monograph: [pt. 3, Engineering]. (Cold Regions Research and Engineering Laboratory, Hanover, N.H., Army Materiel Command.)

- 15040 3-C4. Foundations of structures in cold regions [with list of literature cited; by] Frederick J. Sanger. June 1969. vii+93 p. il. 4° (DA project 1T062112A130 Terrestrial Sciences Center.) †
L.C. card 62-62430 D 103.33/7: 3-C 4

- 15041 Educational opportunities and financial assistance for nursing students. [1969.] [8] p. il. [Illustration is colored.] † ● Item 325
D 101.2: N 93/2

Field manual FM (series).

- 15042 10-13. Supply and service reference data [with list of references]. July 1969. cover title, [139] p. il. 3 tab. 4° [Issued with perforations. Supersedes FM 10-13, Sept. 24, 1957, including all changes.] † ● Item 324
D 101.20: 10-13/2
- 15043 3S-34. See Defense Department, DOD and NASA guide, incentive contracting guide.

- 15044 Index to Report on war in Vietnam. [1969.] [1]+34 p. 4° * Paper, 40c.
● Item 325 D 101.2: V 67/ind.

- 15045 Investment in your future, Army ROTC scholarship program. [1969.] [6] p. narrow 8° † ● Item 325
D 101.2: R 31/9/969

Pamphlets.

- 15046 18-5. Development and maintenance of multi-command ADP systems [with list of references]. Aug. 1969. cover title, [59] p. 4° [Issued with perforations.] † ● Item 327 (Rev. 1969)
- 15047 40-4. Interpersonal relations in care and management of patients. guide for instruction of nonprofessional personnel assigned to Army Medical facilities [with list of references]. Aug. 1969. cover title, 17 p. 4° [Issued with perforations. Supersedes DA Pam S-13, Feb. 21, 1958.] † ● Item 327 (Rev. 1969)
- 15048 550-6. USSR, strategic survey, bibliography. 1969 edition. [1969.] cover title, ix+238 p. il. 3 plates, 9 maps in pocket. [Contains copyrighted material. Some maps are colored.] * Paper, \$5.00.
L.C. card 77-601689
- 15049 550-24. Area handbook for Lebanon [with bibliographies; by] Harvey H. Smith [and others]. July 1969. xviii+352 p. il. [Prepared by Foreign Area Studies, American University, Washington, D.C. Supersedes Pam. 550-24, May 1, 1964.] * Cloth, \$3.25. ● Item 327 (Rev. 1969)
L.C. card 72-603935

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Pamphlets—Continued

- 15050 611-6. Personnel selection and classification tables of civilian-Army occupational relationships. Sept. 1969. cover title, 26 p. 4° [Issued with perforations.] ‡ ● Item 327 (Rev. 1969.)
- 15051 Step into your future [new 2-year Army ROTC program]. [Sept. 1969.] [8] p. il. narrow 8° ([RPI 675.]) [Illustrations are colored.] ‡
● Item 325 D 101.2: R 31/8/969
- Technical manual TM (series). ● Item 329 D 101.11: (nos.)
- 15052 10-410. Bread baking. May 1969. cover title, 160 p. il. 4° (Air Force Dept. Air Force manual AFM 146-5.) [Issued with perforations. Supersedes TM 10-410, AFM 146-5, Dec. 2, 1963.] ‡
L.C. card 78-603887
- 15053 743-200. Storage and materials handling [Change] 22; Sept. 15, 1969. [23] p. il. 4° ([Navy Dept.] NAVSUP PUB 284 CH 22; [Air Force Dept.] AFM 67-3V; [Marine Corps] NAVMC 1101 CH 22; [Defense Dept.] CH 22 DSAM 4145. 1.) [Issued in looseleaf form.] * Paper, 20c.
- 15054 U.S. Army Materiel Command coordinated recruitment program, annual progress report, fiscal year 1969. [1969.] [3]+20+[2] p. il. 4° ‡
L.C. card 73-602512 D 101.70: 969
- USAAVLABS technical reports. (Army Aviation Materiel Laboratories, Fort Eustis, Va.) ‡ D 117.8/2: (nos.)
- 15055 69-20. Feasibility study of non-Newtonian gelled fluids at shock and vibration-isolation medium [with list of literature cited]; by E. D. Griffith. Apr. 1969. cover title, [1]+x+54+[2] p. il. 4° (Contract DAAJ02-67-C-0039, The Western Company, Research Division, Richardson, Tex.) [Erratum, 1 p., issued also.]
- 15056 69-23. Fluidic vortex valve servomotor development; by T. S. Honda, F. S. Ralbovsky. May 1969. cover title, [1]+x+23+[2] p. il. 4° (Contract DAAJ02-C-0093, General Electric Company, Schenectady, N.Y.) [Errata, 1 p., issued also.]
- 15057 69-34. Study to determine if correlation exists between metal fatigue life and capability of metal to absorb or retain inert gas; by Albert J. Frasca. May 1969. cover title, [1]+xi+72+[2] p. il. 4° (Contract DAAJ02-67-C-0021, Industrial Nucleonics Corporation, Columbus, Ohio.) [Erratum, 1 p., issued also.]
- 15058 70-22. Crash survival design guide [with lists of references cited]; by J. W. Turnbow [and others]. Revised Aug. 1969. [1969.] cover title, [1]+xx+280+[2] p. il. 4° (Contract DAAJ02-67-C-0004, Dynamic Science (The AvSER Facility), Division of Marshall Industries, Phoenix, Ariz.)
- 15059 Where the leaders are . . . [1969.] cover title, [16] p. il. 4° ([RPI 699.]) [Illustration on cover is colored.] ‡ ● Item 325 D 101.2: L 46/969-2

ARMY MEDICAL SERVICE, Defense Dept.
Washington, DC 20310

- 15060 The bright adventure of Army nursing. [1969.] cover title, 28 p. il. 4° [Illustrations are colored.] ‡ ● Item 351-A D 104.2: N 93/9
- 15061 Crisis fleeting, original reports on military medicine in India and Burma in Second World War [with list of references]; compiled and edited by James H. Stone. 1969. xiii+423 p. il. (Office of Surgeon General.) [Prepared by Historical Unit, Army Medical Service. Illustrated lining papers.] * Cloth, \$3.75. ● Item 352-A
L.C. card 76-600575 D 104.11: C 86

ATOMIC ENERGY COMMISSION
Washington, DC 20545

AEC research and development reports. Y 3.At 7: 22/ (letters-nos.)

- 15062 AEC-tr-7050. Theory of equilibrium and stability of high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity [with bibliography]; by A. A. Rukhadze, S. A. Triger. [July 1969.] cover title, 53 p. il. 4° (Translation series.) [Translation of Russian report.] ‡ Paper, \$3.00.
- 15063 AEC-tr-7051. Induced Compton effect in plasma and electromagnetic waves under astrophysical conditions [with bibliography]; by V. N. Tsytovich, A. S. Chkhachev. [July 1969.] cover title, 25 p. il. 4° (Translation series.) [Translation of Russian report.] ‡ Paper, \$3.00.

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

AEC research and development reports—Continued

- 15064 AEC-tr 7052. Determination of plasma parameters produced by super high-frequency power in magnetic field steady-state condition [with bibliography]; by A. I. Aulimov [and others]. [July 1969.] cover title, 14 p. il. 4° (Translation series.) [Akademiya Nauk SSSR, Ordina Lenina Fizike-Tekhnicheskii Institute imeni A. F. Ioffe, Leningrad, 1968.] Φ Paper, \$3.00.
- 15065 AEC-tr 7053. Stability of inhomogeneous hot plasma flow [with bibliography]; by I. S. Baikov. [July 1969.] cover title, 16 p. il. 4° (Translation series.) [Preprint no. 89, Institut Fiziki, Akademiya Nauk, SSSR, Moscow, 1968.] Φ Paper, \$3.00.
- 15066 AEC-tr 7054. Studies of quasi-steady electric fields and plasma oscillations in Stellarator L-1 [with bibliography]; by M. S. Berezhetskii [and others]. [July 1969.] cover title, 19 p. il. 4° (Translation series.) [Translation of Russian report.] Φ Paper, \$3.00.
- 15067 AEC-tr 7064. Stability of nonuniform electron beams and problem of current limits in accelerators [with bibliography]; by L. S. Bogdankevich, I. I. Zhelyazkov, A. A. Rukhadze. [July 1969.] cover title, 12 p. 4° (Translation series.) [Translation of Russian report.] Φ Paper, \$3.00.
- 15068 AEC-tr-7066. Plasma absorption of high-frequency energy near lower hybrid frequency [with bibliography]; by B. V. Galaktionov [and others]. [Aug. 1969.] cover title, 7 p. il. 4° (Translation series.) [Translation of Russian report.] Φ Paper, \$3.00.
- 15069 AEC-tr-7074. Plasma radiation process in astrophysics [with bibliography]; by S. A. Kaplan, V. N. Tsytovich. [July 1969.] cover title, [1]+91 p. il. 4° (Translation series.) [Translated from Russian report, Akademiya Nauk SSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 15070 AEC tr-7075. Report on damage due to Niigata earthquake. [1969.] cover title, [1]+44 p. il. 4° (Translation series.) [Tohoku Electric Power Company, Ltd., Sendai, Japan, Nov. 1964.] Φ Paper, \$3.00.
- 15071 AEC-tr-7078. On theory of parametric interaction of superhigh frequency field with a plasma [with bibliography]; by V. P. Silin. [Aug. 1969.] cover title, 20 p. 4° (Translation series.) [Institut Fiziki, Akademiya Nauk SSSR, Moscow, 1969.] Φ Paper, \$3.00.
- 15072 AEC-tr-7082. Method of external injection of electrons into closed toroidal systems [with bibliography]; by E. D. Andryukhina, O. I. Fedyanin, Yu V. Khol' nov. [Aug. 1969.] cover title, 7 p. il. 4° (Translation series: AEC file NP-17745.) [Akademiya Nauk SSSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 15073 AEC-tr-7083. Multiphoton ionization of sodium atom [with bibliography]; by G. A. Delone [and others]. [Aug. 1969.] cover title, 12 p. 4° (Translation series: AEC file NP-17745.) [Akademiya Nauk SSSR, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 15074 ANS SD-7. Proceedings of special sessions on gamma ray production and transport and on civil defense shielding [with list of references; edited by E. A. Straker]. [Aug. 1969.] cover title, iv+239 p. il. 4° (Division of Technical Information.) [Papers presented at 1967 winter meeting of American Nuclear Society, Chicago, Ill., Nov. 1967.] Φ Paper, \$3.00.
- 15075 CONF-690801. Nuclear metallurgy: v. 15, Symposium on reprocessing of nuclear fuels, [containing papers presented Aug. 25-27, 1969 at Iowa State University, Ames, Iowa, with list of references]; edited by P. Chiotti. [Aug. 1969.] xiii+753 p. il. (Division of Technical Information.) [Jointly sponsored by Nuclear Metallurgy Committee, Institute of Metals Division, Metallurgical Society, American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc., and Ames Laboratory of Atomic Energy Commission.] Φ Paper, \$3.00.
- 15076 ORAU-108. Counting characteristics of medium-level whole-body counter [with list of references; by Hirotake Kakehi, W. D. Gibbs, and R. L. Hayes]. Aug. 1969. cover title, [2]+29 p. il. 4° (Medical Division, Oak Ridge Associated Universities, Incorporated, Oak Ridge, Tenn.) Φ Paper, \$3.00.
- 15077 WASH-1097. Civilian nuclear power: Use of thorium in nuclear power reactors [with list of references; prepared by Brookhaven National Laboratory, and other agencies]. June 1969. cover title, xlv+144 p. il. 4° (Division of Reactor Development and Technology.) * Paper, \$1.25 ● Item 1051-C
- 15078 The atom and your health, remarks by Glenn T. Seaborg, Chairman, Atomic Energy Commission, upon receiving Presbyterian Hospital Center Foundation award at Founders' Day dinner, Presbyterian Hospital Center Foundation, Albuquerque, N. Mex., Oct. 13, 1969. [1969.] 17 leaves, 4° (S-31-69.) † Y 3.At 7: 34 Se 1/184
- 15079 Developing human resources, AEC contractors' affirmative acting programs. [June 1969.] cover title, [1]+[14] p. il. oblong 12° * Paper, 25c. ● Item 1051 Y 3.At 7: 2 H 88

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 15080 Meeting the energy gap, remarks by Theos J. Thompson, Commissioner, Atomic Energy Commission, at dedication of Nine Mile Point Nuclear Station, Oswego, N.Y., Oct. 9, 1969. [1969.] 6 leaves, 4° (S-32-59.) †
Y 3.At 7: 34 T 37/2
- 15081 Need for nuclear information, remarks by Theos J. Thompson, Commissioner, Atomic Energy Commission at dedication of Point Beach Information and Training Center, Two Creeks, Wis., Sept. 15, 1969. 1969. 5 leaves, 4° (S-30-69.) †
Y 3.At 7: 34 T 37
- 15082 Remarks by Glenn T. Seaborg, Chairman, Atomic Energy Commission, and U.S. Representative to 13th General Conference of International Atomic Energy Agency, Vienna, Austria, Sept. 24, 1969. 1969. 8 leaves, 4° (S-29-69.) †
Y 3.At 7: 34 Se 1/182
- 15083 Remarks by Glenn T. Seaborg, Chairman, Atomic Energy Commission, at ceremonies opening Atoms in action, Nuclear Science Demonstration Center, Bucharest, Romania, Oct. 1, 1969. 1969. 5 leaves, 4° (S-27-69.) †
Y 3.At 7: 34 Se 1/183
- 15084 Role of nuclear power in Northwest, remarks by Clarence E. Larson, Commissioner, at Convention of Inland Empire Waterways Association, Richland, Wash., Oct. 13, 1969, Oct. 16, 1969. 10 leaves, 4° †
Y 3.At 7: 34 L 32

**BUSINESS AND DEFENSE SERVICES ADMINISTRATION, Commerce
Dept, Washington, DC 20236**

- 15085 German photographic products industry and market; 1968; prepared by Earl H. Young. [1969.] 14 p. 4° ‡
C 41.2: P 56/4/968
- 15086 Industry profiles, 1958-67. Oct. 1969. x+184 p. 4° * Paper, \$1.50. ● Item 215
C 41.2: In 2/25/958-67
- 15087 Photographic products industry and market in United Kingdom, 1968; prepared by Earl H. Young. [1969.] 10 p. 4° ‡
C 41.2: P 56/5/968
- 15088 Textile machinery trends, 1964-1968; [prepared by T. J. Jackson]. Sept. 1969. ii+[1]+44 p. il. 4° ([General Industrial Equipment Division.]) [Includes list of sources. Text on p. 3 of cover.] † Paper, 50c. ● Item 215
L.C. card 75-603897 C 41.2: T 31/6/964-68

**CENSUS BUREAU, Commerce Dept.
Suitland, MD 20233**

1967 census of business: Retail trade area statistics BC67-RA (series). [Preprint from v. 2, Retail trade, area statistics.]

C 3.202/2: 967/(nos.)

- 15089 27. Missouri. [Sept. 1969.] iv+68 p. il. 4° * Paper, 70c. ● Item 132-A-28

- 15090 48. Virginia. [Sept. 1969.] iv+62 p. il. 4° * Paper, 70c. ● Item 132-A-50

— Selected services [area statistics] BC67-SA (series). [Preprint from v. 8, Selected services, area statistics.]

C 3.202/4: 967/(nos.)

- 15091 14. Idaho. [Sept. 1969.] iv+39 p. il. 4° * Paper, 55c. ● Item 132-A-15
- 15092 21. Maine. [Sept. 1969.] iv+45 p. il. 4° * Paper, 60c. ● Item 132-A-22
- 15093 28. Montana. [Sept. 1969.] iv+37 p. il. 4° * Paper, 55c. ● Item 132-A-29
- 15094 33. New Mexico. [Oct. 1969.] iv+41 p. il. 4° * Paper, 55c. ● Item 132-A-34
- 15095 39. Oregon. [Oct. 1969.] iv+57 p. il. 4° * Paper, 60c. ● Item 132-A-40
- 15096 46. Utah. [Sept. 1969.] iv+43 p. il. 4° * Paper, 55c. ● Item 132-A-47
- 15097 47. Vermont. [Sept. 1969.] iv+35 p. il. 4° * Paper, 50c. ● Item 132-A-48
- 15098 52. Wyoming. [Sept. 1969.] iv+35 p. il. 4° * Paper, 50c. ● Item 132-A-54

— Wholesale trade area statistics BC67-WA (series). [Preprint from v. 6, Wholesale trade, area statistics.]

C 3.202/3: 967/(nos.)

- 15099 3. Alaska. [Sept. 1969.] iii+24 p. il. 4° * Paper, 40c. ● Item 132-A-3
- 15100 4. Arizona. [Sept. 1969.] iii+26 p. il. 4° * Paper, 45c. ● Item 132-A-4
- 15101 13. Hawaii. [Oct. 1969.] iii+26 p. il. 4° * Paper, 45c. ● Item 132-A-14
- 15102 14. Idaho. [Sept. 1969.] iii+28 p. il. 4° * Paper, 50c. ● Item 132-A-15
- 15103 28. Montana. [Sept. 1969.] iii+28 p. il. 4° * Paper, 45c. ● Item 132-A-29
- 15104 30. Nevada. [Sept. 1969.] iii+26 p. il. 4° * Paper, 45c. ● Item 132-A-31

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 9

GOVERNMENT PUBLICATIONS

Wholesale trade area statistics BC67-WA—Continued

- 15105 31. New Hampshire. [Sept. 1969.] iii+26 p. ll. 4° * Paper, 45c. ● Item 132-A-32
- 15106 33. New Mexico. [Sept. 1969.] iii+28 p. ll. 4° * Paper, 50c. ● Item 132-A-34
- 15107 36. North Dakota. [Oct. 1969.] iii+28 p. ll. 4° * Paper, 50c. ● Item 132-A-37
- 15108 41. Rhode Island. [Oct. 1969.] iii+26 p. ll. 4° * Paper, 45c. ● Item 132-A-42
- 15109 43. South Dakota. [Sept. 1969.] iii+28 p. ll. 4° * Paper, 50c. ● Item 132-A-44
- 15110 46. Utah. [Sept. 1969.] iii+28 p. ll. 4° * Paper, 45c. ● Item 132-A-47
- 15111 49. Washington. [Sept. 1969.] iii+34 p. ll. 4° * Paper, 50c. ● Item 132-A-51
- 15112 52. Wyoming. [Sept. 1969.] iii+26 p. ll. 4° * Paper, 45c. ● Item 132-A-54

Current housing reports: Series H-111, Housing vacancies. * Paper, \$1.50 (including Series H-111 and H-121 for one year), 50c. additional for foreign mailing; single copy prices vary.

- 15113 57. Vacant housing units in United States. 2d quarter 1969. Sept. 1969. 17+[1] p. 4° * Paper, 20c. ● Item 141-A C 3.215: H-111/57

Current population reports: Series P-20, Population characteristics. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy prices vary. ● Item 142-C C 3.186: P-20/(nos.)

- 15114 190. School enrollment, Oct. 1968 and 1967; [prepared by Dawn D. Nelson and Charles E. Johnson, jr.]. [1969.] cover title, ii+57 p. ll. 4° * Paper, 70c.
- 15115 191. Household and family characteristics, Mar. 1968; [prepared by Arthur J. Norton and Robert O. Grymes]. Oct. 20, 1969. cover title, i+84 p. 4° * Paper, 75c.

Current population reports: Series P-25, Population estimates and projections. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-25/(nos.)

- 15116 432. Estimates of population of 100 large metropolitan areas, 1967-1968. Oct. 3, 1969. 24 p. ll. 4° [Supersedes Current population reports, series P-25, no. 411.] * Paper, 20c. L.C. card 52-2170

Current population reports: Series P-60, Consumer income. * Paper, \$8.50 (including Series P-20, P-23, P-26, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$2.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-60/(nos.)

- 15117 64. Supplementary report on income in 1967 of families and persons in United States; [prepared by Emmett F. Spiers and Joseph J. Knott]. Oct. 6, 1969. cover title, ii+58 p. 4° * Paper, 70c.

- 15118 Electronic data processing equipment for census '70. [1969.] cover title, 8 p. il. oblong 24° † ● Item 146 C 3.2: E1 2/2

- 15119 New one-family homes sold and for sale, 1963 to 1967. [July 1969.] iii+296 p. il. 4° ([Construction Statistics Division.]) [Prepared in cooperation with U.S. Department of Housing and Urban Development.] * Cloth, \$4.75. ● Item 146 L.C. card 78-601125 C 3.2: H 75/2/963-67

Quarterly tax reports GT69 (series).

- 15120 2. Quarterly summary of State and local tax revenue, Apr.-June 1969. Sept. 1969. 8 p. ll. 4° † Paper, 10c. ● Item 146-E C 3.145/6: 969/2

United States census of agriculture, 1964, farms, farm characteristics, livestock and products, crops, fruits, values: V. 3, [Special reports] pt. 7.

- 15121 7. Evaluation surveys, chap. 1, Coverage check; [prepared by Bryan J. Hargis]. [Oct. 1969.] [41+56 p. il. 4° ([Statistical Research Division.]) * Paper, 60c. ● Item 152 C 3.31/5: 964/v.3/pt.7/chap.1

CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, DC 20201

Publications. ● Item 453

FS 17.210:(nos.)

- 15122 466. States can help many children and families. [1969.] cover title, 8 p. il. narrow 12° * Paper, 15c. L.C. card 75-60474
- 15123 467. Who will take care of your child when you are in training or on the job? [1969.] 12 p. il. narrow 12° [Text on p. 2 of cover.] * Paper, 15c. L.C. card 72-604041

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

- 15124 Research relating to children, current and recently completed studies on growth and development, personality and adjustment, education process, exceptional children, child in family, socioeconomic and cultural factors, social services, health services, Sept. 1968-Mar. 1969. [1969.] iv+143 p. 4° (Bulletin 24; Clearinghouse for Research in Child Life.) * Paper, \$1.50. ● Item 453-A
L.C. card 52-60018

FS 17.211:24

CIVIL AERONAUTICS BOARD Washington, DC 20428

- 15125 Abstract of address by Secor D. Browne, Chairman, Civil Aeronautics Board at dedication of new AVCO facility, Nashville, Tenn., Oct. 17, 1968. [1969.] 4 p. 4° † C 31.215: B 81/3
- 15126 Abstract of remarks by Secor D. Browne, Chairman, Civil Aeronautics Board, before Airport Operators Council International, Los Angeles, Calif., Oct. 16, 1969. [1969.] 4 p. 4° † C 31.215: B 81/2
- 15127 Abstract of remarks made by Secor D. Browne, Chairman, Civil Aeronautics Board, before American Right of Way Association Regional Seminar, New York City, Oct. 10, 1969. 1969. 2 p. 4° † C 31.215: B 81
- 15128 Address by Robert T. Murphy, member, Civil Aeronautics Board, before fall quarterly regional meeting of Association of Local Transport Airlines, Amsterdam, The Netherlands, Oct. 16, 1969. [1969.] 10 p. 4° † C 31.215: M 95/51
- 15129 Emerging patterns in regulation of local air carriers, remarks by Whitney Gilliland, Vice Chairman, Civil Aeronautics Board, 81st annual Convention of National Association of Regulatory Utility Commissioners, Denver, Colo., Oct. 9, 1969. [1969.] [1]+13 p. 4° † C 31.215: G 41/12
- 15130 Remarks by Robert T. Murphy, Vice Chairman, Civil Aeronautics Board, at panel discussion, 39th World Travel Congress, American Society of Travel Agents, Tokyo, Japan, Sept. 18, 1969. 1969. 7 p. 4° † C 31.215: M 95/50

CIVIL DEFENSE OFFICE (Army), Defense Dept. Washington, DC 20310

- [Leaflet] L (series). † ● Item S57-D-5 D 119.13: (nos.)
- 15131 64. Future Farmers of America and civil defense. July 1969. [6] p. il. oblong 48°
- 15132 66. Civil Air Patrol & civil defense. July 1969. [2] p. il. 4° folded into oblong 48° size.
- [Technical report] TR (series).
- 15133 39. Fallout shelters, Dec. 1969. 8 p. il. 4° [Supersedes TR-39, Dec. 1968.] ‡ ● Item 320-B-2 D 119.9: 39/4

CIVIL SERVICE COMMISSION Washington, DC 20415

- 15134 Amendment to announcement 347B, positions in aerospace technology for duty with National Aeronautics and Space Administration. Sept. 1969. [4] p. 4° † CS 1.26: 964/347 B/amdt.-4
- 15135 Applications continuously accepted for jobs in trades and crafts, equipment operation and repair at journeyman and junior levels and for blue collar helper, various occupations, salaries depend upon level of job, pay ranges from \$2.90 an hour to \$3.90 an hour, apply to Interagency Board of U.S. Civil Service Examiners for Washington, D.C., announcement WA-6-06 (local). Oct. 25, 1966, revised Oct. 1969. [1969.] 4 p. 4° † ● Item 292 CS 1.26/4: 966/WA-6-06/rev.-3
- 15136 Coordinator's scoreboard, review of what's new in placement of the handicapped. Aug. 1969. [4] p. 1. 4° (Selective Placement Programs for the Handicapped.) † ● Item 291-B CS 1.75: 969

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 11

GOVERNMENT PUBLICATIONS

- 15137 Current Federal civil service announcements, AN 2279, supp. A to issue 191, Sept.-Oct. 1969. [1969.] 1 p. oblong 48° † ● Item 292
CS 1.28: 2279/191/supp.A
- 15138 Current local announcements, covering Washington, D.C., metropolitan area, AN 2602-WA, issue no. 7, Sept.-Oct. 1969. [1969.] [2] p. f°, folded into oblong 8° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) †
CS 1.28: 2602-WA/7
- 15139 Federal career opportunities for photographers and photographers (laboratory) GS-4, GS-5, GS-7, announcement WAM-924. Nov. 4, 1969. 4 p. il. 4° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) [No closing date. No written test.] † ● Item 292
CS 1.26/4: 969/WAM-924
- Federal employee facts.
- 15140 3. Civil service retirement system. May 1969. [6] p. il. narrow 8° [Corrected copy.] * Paper, \$5.00 per 100; single copy, 10c. ● Item 293-A
CS 1.59: 3/9
- 15141 Guide to Federal career literature. [1969.] [6]+32 p. 4° * Paper, 55c.
● Item 290-E
L.C. card 70-604114
CS 1.61: C 18
- 15142 Handbook of selective placement in Federal civil service employment of the physically handicapped, mentally restored, mentally retarded, rehabilitated offender. June 1969. cover title, [7]+48 p. 12° (BRE-12.) ‡ ● Item 296-B
CS 1.7/4: Se 4
- 15143 Jobs as agricultural and biological technicians, biological laboratory technician, grades GS-5 through GS-9 [and] agricultural research technicians, grade GS-5, applications accepted continuously by Interagency Board of U.S. Civil Service Examiners for Washington, D.C., announcement WAB-807. July 30, 1968, revised Sept. 1969. [1969.] [2]+6 p. 4° †
CS 1.26/4: 968/WAB-807/rev.
- 15144 Junior Federal assistant, support position in such fields as personnel, purchasing, supply, statistics, general accounting, announcement 411, Nov. 1969. [1969.] 7 p. 4° † ● Item 292
CS 1.26: 967/411/rev.-2
- 15145 Opportunities as technical aids in science and engineering grades 2 and 3 in such fields as biology, geodesy, medicine, drafting, surveying, engineering, mathematics, cartography, meteorology, physical science, apply to Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E Street, N.W. Washington, D.C. 20415, announcement WAP-920. 4 p. 4° [Open until further notice.] † ● Item 292
CS 1.26/4: 969/WAP-920
- Pamphlets. ● Item 299
CS 1.48: (nos.)
- 15146 41. Reductions in force in Federal agencies. Sept. 1969. 6 p. narrow 8°
* Paper, 10c.
- 15147 BRE-18. Federal jobs overseas. July 1969. 12 p. narrow 8° * Paper, 10c.
- 15148 BRE-19. Accent on youth, Federal employment and work experience programs for disadvantaged youth. June 1969. [4] p. narrow 8° †
- 15149 SM 62-04. Study of employment of women in Federal Government, 1968; [prepared by Bureau of Management Services]. June 1969. [3] leaves +237 p. 4° (Manpower Statistics Division.) [Prepared for Federal women's program.] * Paper, \$2.00.
- 15150 Sample questions, AN 3626. Aug. 1969. 6 p. 4° [For stenographer and typist examination.] † ● Item 292
CS 1.28: 3626/3

COAST AND GEODETIC SURVEY, Commerce Dept Washington, DC 20230

- 15151 International Indian Ocean Expedition, USC&GS ship Pioneer, 1964: v. 3, Bathymetry, geomagnetic, and gravity data, Feb. 11-Aug. 11, 1964. 1969. iii+250 p. il. 4° * Paper, \$3.00. ● Item 192
L.C. card 66-62429
C 4.2: In 2/2/v.3

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Publication.

- 15152 65-1, pt. 52. Plane coordinate intersection tables (2½ minutes), Michigan (Lambert). 1969. iii+185 p. il. 4° * Paper, \$1.75. ● Item 193
L.C. card 53-61216 C 4.19/2: 65-1/pt.52
- 15153 Tidal current tables, Atlantic Coast of North America, 1970. [1969.] 200 p. il. 6 pl. [Includes list of publications relating to tides and currents.]
† Paper, \$2.00. ● Item 190.
L.C. card 22-26822 C 4.22: 970

COAST GUARD, Transportation Dept.
Washington, DC 20591

Oceanographic reports. † ● Item 940-B TD 5.18: (nos.)

- 15154 13. Oceanography of Grand Banks region and Labrador Sea in 1966 [with list of references; by] Thomas C. Wolford. June 1966 [published 1969]. viii+176 p. il. 4° (CG 373-13; [Coast Guard Oceanographic Unit, Washington, D.C.])
L.C. card 73-604036
- 15155 20. Oceanographic observations North Atlantic Ocean Station Bravo, 56°30' N., 51°00' W., Oct. 1966-Oct. 1967 [with list of literature cited]; by Joseph L. Shuhy. July 1969. vii+163 p. il. 4° ([Oceanographic Unit]; CG 373-20.) [Text on p. 2 of cover.]
L.C. card 76-603830
- 15156 21. Oceanographic observations North Atlantic Ocean station ECHO 35°00' N., 48°00' W., Sept. 1966-Oct. 1967 [with list of literature cited]; by Joseph L. Shuhy. 1969. vi+119 p. il. 4° (CG 373-21; Oceanographic Unit.)
L.C. card 70-603831
- 15157 Rules and regulations for passenger vessels, subchap. II; May 1, 1969. [1969.] viii+196 p. 4° (CG-256.) [Title 46, Code of Federal regulations, pts. 70-80, inclusive. Replaces edition of May 2, 1966.] ‡ ● Item 943
L.C. card 53-60489 TD 5.6: V 63/2
- 15158 Rules and regulations for tank vessels, subchap. D; May 1, 1969. [1969.] viii+114 p. 4° (CG-123.) [Title 46, Code of Federal regulations, pts. 30-40 (inclusive).] † ● Item 943 TD 5.6: T 15

COMMERCE DEPARTMENT
Washington, DC 20230

NOTE.—Requests to the Commerce Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 15159 Address by Maurice H. Stans, Secretary of Commerce, before 50th anniversary dinner of the International Trade Club of Chicago, Chicago, Ill., Oct. 1, 1969. [1969.] 2+13 p. 4° † C 1.18: St 2/17
- 15160 Address by Maurice H. Stans, Secretary of Commerce, before International Downtown Executives Association Conference, Washington, D.C., Sept. 19, 1969. [1969.] 15 p. 4° † C 1.18: St 2/16
- 15161 Address by Maurice H. Stans, Secretary of Commerce, before 38th International Conference of Financial Executives Institute, Chicago, Ill., Oct. 2, 1969. [1969.] 2+16 p. 4° † C 1.18: St 2/18
- 15162 Address by Rocco C. Siciliano, Under Secretary of Commerce, prepared for delivery to joint meeting of Taipei American Chamber of Commerce and American University Club, Taipei, Taiwan, Sept. 24, 1969. [1969.] 12 p. 4° † C 1.18: Si 12/5
- 15163 Address by Under Secretary of Commerce Rocco C. Siciliano before 39th ASTA World Travel Congress, Ueno Park, Tokyo, Japan, Sept. 15, 1969. [1969.] 11 p. 4° † C 1.18: Si 12/3
- 15164 Do you know your economic ABC's? Uncle Sam counts, story of census '70 [with bibliography]. [1969.] 48 p. il. oblong 24° [Contents on p. 2 of cover.] * Paper, 35c. ● Item 128
L.C. card 73-603954 C 1.2: Un 1

GOVERNMENT PUBLICATIONS

- 15165 Looking ahead with machine tool industry, address by Kenneth N. Davis, jr., Assistant Secretary of Commerce for Domestic and International Business, prepared for delivery at noon luncheon at Fellows Gear Shaper Company, North Springfield, Vt., Sept. 29, 1969, to open observance of Machine Tool Week in Vermont. [1969.] 8 p. 4° † C 1.18: D 29/3
- 15166 Our need is so great, our objective so reasonable, our resolve so determined, remarks by Stanley Nehmer, Deputy Assistant Secretary of Commerce for Resources, prepared for delivery at 115th annual meeting of Northern Textile Association, Portsmouth, N.H., Sept. 16, 1969. [1969.] 11 p. 4° † C 1.18: N 31/12
- Overseas business reports OBR (series). [Issued irregularly.] * Paper, \$16.00 a yr., \$5.00 additional for foreign mailing; single copy, 15c. (1-3 yr. subs.). ● Item 231-B C 1.50: (nos.)
- 15167 69-43. U.S. foreign trade by quarters, Jan.-Mar. 1967-Jan.-Mar. 1969; [prepared by U.S. Trade statistics Unit, International Trade Analysis Division.] Sept. 1969. 27 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 15168 69-44. Foreign trade regulations of Israel [with bibliography]; prepared by Kathleen Kelm. Sept. 1969. 7 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 69-19. Errata, 1 p., issued also.]
- 15169 69-45. Foreign trade regulations of Turkey [with bibliography]; prepared by Cherie Loustaunau. Sept. 1969. 7 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 67-29.]
- 15170 69-46. Useful market surveys and industry reports issued by United Nations Economic Commission for Africa (ECA), supp. 1; prepared in Africa Division, Office of International Regional Economics. Sept. 1969. 12 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 15171 69-47. Selling in Belgium [with bibliography]; prepared by Robert H. Walker. Sept. 1969. 19 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 66-46.]
- 15172 69-49. Foreign trade regulations of Saudi Arabia; prepared by Cherie Loustaunau. Oct. 1969. 5 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 66-58.] L.C. card 66-97329
- 15173 Remarks by Maurice H. Stans, Secretary of Commerce, before Maritime Administration Research and Development Conference, Washington, D.C., Sept. 10, 1969. 1969. 6 p. 4° † C 1.18: St 2/14
- 15174 Remarks by Secretary of Commerce Maurice H. Stans, prepared for delivery at meeting with executives of trade associations in exporting, shipping, freight-forwarding and transportation industries, Washington, D.C., Sept. 17, 1969. [1969.] 4 p. 4° † C 1.18: St 2/15
- 15175 Remarks by Under Secretary of Commerce Rocco C. Siciliano before Universal Federation of Travel Agents Associations, Hong Kong, Sept. 29, 1969. [1969.] 8 p. 4° † C 1.18: Si 12/4
- 15176 Software of change, address by Assistant Secretary of Commerce for Science and Technology Myron Tribus, prepared for delivery before Institute of Management, Sciences meeting, Washington, D.C., Sept. 23, 1969. 1969. 10 p. 4° † C 1.18: T 73/5
- 15177 Solid waste, a solid resource, address by Robert McLellan, Deputy Assistant Secretary of Commerce for Business Development, prepared for delivery at National Association of Secondary Material Industries Meeting, Atlantic City, N.J., Sept. 27, 1969. [1969.] 5 p. 4° † C 1.18: M 22/2
- 15178 State of the economy, present and future, remarks by John B. Henderson, Acting Assistant Secretary of Commerce for Economic Affairs, prepared for delivery before annual meeting of National Association of Photographic Manufacturers, Inc., Washington, D.C., Sept. 24, 1969. [1969.] 7 p. 4° † C 1.18: H 8/2
- 15179 U.S. Department of Commerce periodicals to aid businessmen. Revised Sept. 1969. [1969.] [2]+40 p. il. narrow 8° [Pages 39 and 40 of text are printed on p 3-4 of cover.] † ● Item 126-A C 1.54: P 41/969
- 15180 United States Department of Commerce, serving a growing economy and a growing people. [1969.] [6] p. il. narrow 12° † C 1.2: C 73/10/969/outline

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15181 United States Department of Commerce, serving a growing economy and a growing people; [prepared by Office of Public Affairs]. [Sept. 1969.] 36 p. il. 4° [Text on p. 2 of cover.] * Paper, 65c. ● Item 128
L.C. card 72-604104 C 1.2 : C 73/10/969

COMMERCIAL FISHERIES BUREAU, Interior Dept
Washington, DC 20240

- C. F. S. (series). † ● Item 610-A I 49.8/2 : (nos.)
15182 4922. North Carolina landings, 1968, annual summary. [July 1969.] 10 p. il. 4°
[Prepared in cooperation with North Carolina Department of Conservation and Development, Division of Commercial and Sports Fisheries, Morehead City, N.C.]
15183 4970. Processed fishery products, 1967, annual summary. [1969.] 43 p. il. 4°
Special scientific report : Fisheries (series).
15184 584. Fur seal investigations, 1966 [with list of literature cited; by] Marine Mammal Biological Laboratory. June 1969. vii+123 p. il. 4° ‡ ● Item 614-B I 49.15/2 : 584

CONGRESS

Congressional record, proceedings and debates of 90th Congress, 2d session, v. 114. [Permanent edition.] 1968. ● Item 993
L.C. card 12-26438 X.90/1 : pt. (nos.)

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break.

- 15185 pt. 18. July 24-30, 1968. [1]+22979-24366 p. 4° * Cloth, \$6.50.
15186 pt. 20. Sept. 5-16, 1968 [1]+25747-27094 p. 4° * Cloth, \$5.75.
15187 pt. 21. Sept. 17-25, 1968. [1]+27095-28250 p. 4° * Cloth, \$5.75.
15188 pt. 22. Sept. 26, 1968-Oct. 3, 1968. [1]+28251-29576 p. 4° * Cloth, \$6.25.

Congressional serial set

NOTE.—During each session of Congress the House and Senate documents and reports are accumulated into bound volumes comprising the Congressional serial set. No catalog entry is made for the volumes of the Serial set since the documents and reports contained therein have been previously listed in the Monthly catalog.

The following bound volumes were sent to depository libraries during the period of this catalog :

- 15189 House documents :
nos. 392-466, with exceptions, 89th Congress, 2d session, House miscellaneous documents III [Serial 12724-3]. ● Item 995-G
15190 nos. 412, 433-435, 500, 89th Congress, 2d session, Interior Department reports on Reclamation projects I [Serial 12728-1]. ● Item 995-G
15191 House reports :
nos. 2180-2335, with exceptions, 89th Congress, 2d session, House miscellaneous reports on public bills VIII [Serial 12713-7]. ● Item 1007-A
15192 Senate document :
no. 30, 91st Congress, 1st session, Report of the Secretary of the Senate, Jan. 1-June 30, 1969 [Serial 12843-2]. ● Item 995-M
15193 Senate reports :
nos. 273-466, with exceptions, 90th Congress, 1st session, Senate miscellaneous reports on public bills II [Serial 12750-2]. ● Item 1007-A

Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Public laws, 91st Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402, at a subscription price of \$20.00 per session, \$5.00 additional for foreign mailing; single copies vary in price.

- 15194 45. H.R. 3689, act to cede to Montana concurrent jurisdiction with United States over real property comprising Veterans' Administration Center, Fort Harrison, Mont. Approved July 19, 1969. 1 p. * Paper, 5c.
15195 46. S. 1647, act to authorize release of 100,000 short tons of lead from national stockpile and supplemental stockpile. Approved July 19, 1969. 1 p. * Paper, 5c.
15196 48. H.R. 7215, act to provide for striking of medals in commemoration of 50th anniversary of United States Diplomatic Courier Service. Approved July 22, 1969. 1 p. * Paper, 5c.

4For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
● Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Public laws, 91st Congress—Continued

- 15197 49. H.R. 4153, act to authorize appropriations for procurement of vessels and aircraft and construction of shore and offshore establishments for Coast Guard. [Approved July 22, 1969.] 2 p. * Paper, 5c.
- 15198 50. H.R. 13079, [act] to continue for temporary period existing interest equalization tax. Approved Aug. 2, 1969. 1 p. * Paper, 5c.
- 15199 51. S. 1590, act to amend National Commission on Product Safety act in order to extend life of the Commission so that it may complete its assigned tasks. Approved Aug. 4, 1969. 1 p. * Paper, 5c.
- 15200 52. S. 38, act to consent to Upper Niobrara River compact between Wyoming and Nebraska. [Approved Aug. 4, 1969.] 5 p. * Paper, 5c.
- 15201 53. H.R. 9951, act to provide for collection of Federal unemployment tax in quarterly installments during each taxable year, to make status of employer depend on employment during preceding as well as current taxable year, to exclude from computation of excess the balance in employment security administration account as of close of fiscal years 1970-72, to raise limitation on amount authorized to be made available for expenditure out of employment security administration account by amounts so excluded, and for other purposes. [Approved Aug. 7, 1969.] 5 p. * Paper, 5c.
- 15202 54. H.R. 10946, act to promote health and safety in building trades and construction industry in all Federal and federally financed or federally assisted construction projects. [Approved Aug. 9, 1969.] 3 p. * Paper, 5c.
- 15203 55. S.J. Res. 85, joint resolution to provide for designation of period from Aug. 26-Sept. 1, 1969, as National Archery Week. Approved Aug. 9, 1969. 1 p. * Paper, 5c.
- 15204 56. H.R. 5833, act to continue until close of June 30, 1972, existing suspension of duty on certain copying shoe lathes. [Approved Aug. 9, 1969.] 2 p. * Paper, 5c.
- 15205 57. H.R. 2785, act to authorize Secretary of Interior to convey to Tennessee certain lands within Great Smoky Mountains National Park and certain lands comprising Gatlinburg Spur of Foothills Parkway, and for other purposes. Approved Aug. 9, 1969. 1 p. * Paper, 5c.
- 15206 58. S. 714, act to designate Ventana Wilderness, Los Padres National Forest, in California. Approved Aug. 18, 1969. 1 p. * Paper, 5c.
- 15207 59. H.J. Res. 864, joint resolution to provide for temporary extension of authority conferred by Export control act of 1949. Approved Aug. 18, 1969. 1 p. * Paper, 5c.
- 15208 60. S. 912, act to provide for establishment of Florissant Fossil Beds National Monument in Colorado. Approved Aug. 20, 1969. 1 p. * Paper, 5c.
- 15209 61. S. 1611, act to amend Public law 85-905 to provide for National Center on Educational Media and Materials for the Handicapped, and for other purposes. [Approved Aug. 20, 1969.] 2 p. * Paper, 5c.
- 15210 62. S. 1373, act to amend Federal aviation act of 1958, as amended, and for other purposes. Approved Aug. 20, 1969. 2 p. * Paper, 5c.
- 15211 63. H.R. 12720, act to provide for conveyance of certain real property of District of Columbia to Washington International School, Incorporated. Approved Aug. 25, 1969. 2 p. * Paper, 5c.
- 15212 64. H.R. 671, act to compensate Indians of California for value of land erroneously used as offset in judgment against United States obtained by said Indians. Approved Aug. 25, 1969. 1 p. * Paper, 5c.
- 15213 65. H.R. 10107, act to continue for temporary period existing suspension of duty on certain istle and existing interest equalization tax. Approved Aug. 25, 1969. 1 p. * Paper, 5c.
- 15214 66. S. 742, act to amend act of June 12, 1948 (62 Stat. 382), in order to provide for construction, operation, and maintenance of Kennewick division extension, Yakima project, Wash., and for other purposes. Approved Aug. 25, 1969. 2 p. * Paper, 5c.

ATOMIC ENERGY JOINT COMMITTEE

Washington, DC 20515

- 15215 Selected materials on environmental effects of producing electric power; Aug. 1969. viii+553 p. il. (Joint committee print, 91st Congress, 1st session.) * Paper, \$2.50.
L.C. card 78-604048 Y 4.At 7/2: E1 2/2

HOUSE OF REPRESENTATIVES

Washington, DC 20515

House documents

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

House documents, 80th Congress.

- 15216 481, pt. 6. Foreign relations of United States, 1946: v. 6. Eastern Europe, Soviet Union. 1969. ix+993 p. ([Publication S470; Historical Office, Bureau of Public Affairs.]) * (Available in departmental edition, cloth, \$5.50, S 1.1:946/v.6, and sent to depositories in that form. See Entry no. 16466.)

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

House documents, 87th Congress.

- 15217 386, pt. 2. [Annual report of American Historical Association: 1961, v. 2] Writing on American history, 1959; compiled by National Historical Publications Commission, James R. Masterson, editor, Joyce E. Eberly, assistant editor. [1969.] xv+737 p. (* Available in departmental edition, cloth, \$4.75, \$14.1: 969/v.2, and sent to depositories in that form. See Entry no. 15028.)

NOTE.—This volume, a classified list of books and articles on United States history that were published during 1959, continues a series begun with the issuance of a volume that listed writings published in 1902. Including the present volume the series consists of 47 volumes covering 49 years. Volumes for years 1904-5 and 1941-47 have not been prepared.

House documents, 90th Congress.

- 15218 240. Decisions of Commissioner of Patents and of United States Courts in patent and trademark cases, compiled from v. 846-857, inclusive, of Official gazette of Patent Office during 1968, 1969. ix+193 p. * (Available in departmental edition, cloth, \$2.50, C 21.6: 968, and sent to depositories in that form. See Entry no. 16321.)

House documents, 91st Congress.

- 15219 149. Examination of financial statements, Federal home loan banks, year ended Dec. 31, 1968, letter from Comptroller General of United States transmitting report of Federal home loan banks supervised by Federal Home Loan Bank Board; Sept. 3, 1969. 1969. iv+16 p. 4° † ● Item 996
- 15220 150. Port Sutton, Tampa Harbor, Fla., letter from chief of engineers, Army, submitting report; Sept. 3, 1969. 1969. xii+39 p. il. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15662.] †
- 15221 151. Coos Bay, Oreg., letter from chief of engineers, Army, submitting report; Sept. 3, 1969. 1969. xii+173 p. il. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15653.] †
- 15222 152. Report of proceedings of Judicial Conference of United States, Mar. 13-June 10, 1969. 1969. viii+47 p. [Also issued in departmental edition.] † ● Item 996
- 15223 156. Examination of financial statements, Federal Housing Administration, fiscal year 1968, letter from Comptroller General transmitting report; Sept. 9, 1969. 1969. vi+39 p. 4° † ● Item 996
- 15224 158. Resolved that Federal Government should grant annually specific percentage of its income tax revenue to State governments, collection of excerpts and bibliography relating to intercollegiate debate topic, 1969-70, pursuant to Public law 88-246, compiled by [Maureen McGreen and E. Ann Hodges], Legislative Reference Service, Library of Congress. 1969. v+136 p. il. * Paper, 60c. ● Item 996
L.C. card 72-604033
- 15225 159. Streams in vicinity of Fairfield, Calif., letter from chief of engineers, Army, submitting report; Sept. 17, 1969. 1969. xv+123 p. il. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15663.]
- 15226 172. Centralization of Federal science activities, report to Subcommittee on Science, Research, and Development of Committee on Science and Astronautics, 91st Congress, 1st session, prepared by Science Policy Research Division, Legislative Reference Service, Library of Congress; May 29, 1969. 1969. xi+108 p. il. (Serial B.) † ● Item 996
L.C. card 79-602472

House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on public bills, 91st Congress. † House Document Room, Capitol. (No. 253 is sold by Superintendent of Documents.) ● Item 1008-A

- 15227 253. Direct popular election of the President. Report of Committee on Judiciary with additional, minority, individual, and separate views, on H.J. Res. 681; May 16, 1969. 1969. [1]+52 p. * Paper, 25c. L.C. card 70-602329
- 15228 389. Child protection act of 1969. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 7621, July 24, 1969. 31 p.
- 15229 390. Consideration of House joint resolution 681. Report from Committee on Rules to accompany H. Res. 491, July 24, 1969. 1 p.
- 15230 394. Extension of United States fishing fleet improvement act. Report together with supplemental view from Committee on Merchant Marine and Fisheries to accompany H.R. 4813, July 25, 1969. 31 p.
- 15231 395. National Center on Educational Media and Materials for the Handicapped. Report from Committee on Education and Labor to accompany S. 1611, July 28, 1969. 11 p.
- 15232 396. President's Council on Youth Opportunities. Report from Committee on Education and Labor to accompany H.J. Res. 764, July 28, 1969. 6 p.

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 17

GOVERNMENT PUBLICATIONS

House reports on public bills, 91st Congress—Continued

- 15233 397. Extension of Voting rights act of 1965. Report from Committee on Judiciary together with separate and individual views to accompany H.R. 4249. July 28, 1969. 23 p. [Corrected print.]
- 15234 398. Consideration of H.R. 12829. Report from Committee on Rules to accompany H. Res. 499. July 29, 1969. 1 p.
- 15235 399. Providing for consideration of H.R. 13018. Report from Committee on Rules to accompany H. Res. 500. July 29, 1969. 1 p.
- 15236 400. Providing for consideration of H.R. 13080. Report from Committee on Rules to accompany H. Res. 501. July 29, 1969. 1 p.
- 15237 407. Confidentiality of census information. Report from Committee on Post Office and Civil Service to accompany H.R. 12884. July 30, 1969. 21 p.
- 15238 411. Providing for establishment of Florissant Fossil Beds National Monument in Colorado. Report from Committee on Interior and Insular Affairs to accompany S. 912. July 31, 1969. 6 p.
- 15239 412. Providing for agreeing to Senate amendments to bill H.R. 9951. Report from Committee on Rules to accompany H. Res. 509. Aug. 1, 1969. 1 p.
- 15240 415. Relating to per annum gross rates of pay of certain positions under House of Representatives. Report from Committee on House Administration to accompany H. Res. 502. Aug. 5, 1969. 1 p.
- 15241 426. Acquisition of air carriers. Conference report to accompany S. 1373. Aug. 5, 1969. 4 p.
- 15242 427. Consideration of H.R. 13270. Report from Committee on Rules to accompany H. Res. 513. Aug. 5, 1969. 1 p.
- 15243 428. Providing funds for Select Committee on House Restaurant. Report from Committee on House Administration to accompany H. Res. 508. Aug. 6, 1969. 1 p.
- 15244 429. Federal involvement in construction in hazardous geologic areas, 7th report by Committee on Government Operations, Aug. 6, 1969. 1969. iv+28 p. il. L.C. card 74-603362
- 15245 451. Permitting certain real property in Maryland to be used for highway purposes. Report from Committee on Armed Services to accompany H.R. 10420. Aug. 6, 1969. 8 p.
- 15246 452. Second listing of operating Federal assistance programs compiled during Roth study. Report from Committee on House Administration to accompany H. Con. Res. 309. Aug. 7, 1969. 1 p.
- 15247 453. Authorizing printing of additional copies of basic report (pt. 1) accompanying Tax reform act of 1969. Report from Committee on House Administration to accompany H. Res. 510. Aug. 7, 1969. 1 p.
- 15248 454. Authorizing printing of additional copies of supplementary report (pt. 2) accompanying Tax reform act of 1969. Report from Committee on House Administration to accompany H. Res. 511. Aug. 7, 1969. 1 p.
- 15249 455. Insured student loan emergency amendments of 1969. Report from Committee on Education to accompany H.R. 13194. Aug. 7, 1969. 11 p.
- 15250 456. Peace Corps act. Report from Committee on Foreign Affairs to accompany H.R. 11039. Aug. 7, 1969. 23 p. il.
- 15251 459. Consideration of H.R. 4813. Report from Committee on Rules to accompany H. Res. 515. Aug. 7, 1969. 1 p.
- 15252 460. Consideration of H.R. 7621. Report from Committee on Rules to accompany H. Res. 516. Aug. 7, 1969. 1 p.
- 15253 461. Consideration of H.R. 10105. Report from Committee on Rules to accompany H. Res. 517. Aug. 7, 1969. 1 p.
- 15254 462. Consideration of H.R. 12085. Report from Committee on Rules to accompany H. Res. 518. Aug. 7, 1969. 1 p.
- 15255 470. Furthering economic advancement and general welfare of Hopi Indian Tribe of Arizona. Report from Committee on Interior and Insular Affairs to accompany H.R. 4869. Sept. 4, 1969. 9 p.
- 15256 471. Providing for disposition of judgment recovered by Confederated Salish and Kootenai tribes of Flathead Reservation, Mont., in par. 11, docket 50233. Court of Claims, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 9756. Sept. 4, 1969. 3 p.
- 15257 472. Providing for disposition of judgment funds to Confederated Tribes of Umatilla Indian Reservation. Report from Committee on Interior and Insular Affairs to accompany H.R. 9477. Sept. 4, 1969. 23 p.
- 15258 473. Designating Desolation Wilderness, Eldorado National Forest, in California. Report from Committee on Interior and Insular Affairs to accompany H.R. 850. Sept. 4, 1969. 6 p.
- 15259 474. Consideration of H.R. 7737. Report from Committee on Rules to accompany H. Res. 526. Sept. 4, 1969. 1 p.
- 15260 475. Consideration of H.R. 11039. Report from Committee on Rules to accompany H. Res. 527. Sept. 4, 1969. 1 p.
- 15261 476. Consideration of S. 574. Report from Committee on Rules to accompany H. Res. 528. Sept. 4, 1969. 1 p.
- 15262 477. Relating to age limits in connection with appointments to United States Park Police. Report from Committee on Interior and Insular Affairs to accompany S. 1686. Sept. 8, 1969. 4 p.
- 15263 478. Providing for establishment of William Howard Taft National Historic Site. Report from Committee on Interior and Insular Affairs to accompany H.R. 7066. Sept. 8, 1969. 5 p.
- 15264 479. Providing for development of Eisenhower National Historic Site at Gettysburg, Pa., and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.J. Res. 51. Sept. 8, 1969. 7 p.
- 15265 480. Federal salary comparability act of 1969. Report together with supplemental and minority views to accompany H.R. 13000. Sept. 9, 1969. 46 p.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

- 15266 481. Consideration of H.R. 474. Report from Committee on Rules to accompany H. Res. 534. Sept. 9, 1969. 1 p.
- 15267 483. Consideration of H.R. 8449. Report from Committee on Rules to accompany H. Res. 536. Sept. 9, 1969. 1 p.
- 15268 484. Extending authority to set interest rates on mortgages to veterans. Report from Committee on Veterans' Affairs to accompany H.R. 13369. Sept. 10, 1969. 5 p.
- 15269 485. Gifted and talented children educational assistance act. Report from Committee on Education and Labor to accompany H.R. 13304. Sept. 11, 1969. 4 p.
- 15270 486. Children with specific learning disabilities act of 1969. Report from Committee on Education and Labor to accompany H.R. 13310. Sept. 11, 1969. 17 p.
- 15271 487. Legislative branch appropriation bill, 1970. Report from Committee on Appropriations to accompany H.R. 13763. Sept. 11, 1969. 51 p.
- 15272 488. International claims settlement act amendment. Report from Committee on Foreign Affairs to accompany H.R. 11711. Sept. 15, 1969. 5 p.
- 15273 489. Pan American Institute of Geography and History. Report from Committee on Foreign Affairs to accompany H.J. Res. 746. Sept. 15, 1969. 6 p.
- 15274 490. National program of institutional grants. Report from Committee on Science and Astronautics to accompany H.R. 11542. Sept. 15, 1969. 80 p.
- 15275 491. Consideration of H.R. 850. Report from Committee on Rules to accompany H. Res. 543. Sept. 16, 1969. 1 p.
- 15276 492. Consideration of H.R. 12549. Report from Committee on Rules to accompany H. Res. 544. Sept. 16, 1969. 1 p.
- 15277 493. Consideration of H.R. 12884. Report from Committee on Rules to accompany H. Res. 545. Sept. 16, 1969. 1 p.
- 15278 494. Changing name of Pleasant Valley Canal, Calif., to Coalinga Canal. Report from Committee on Interior and Insular Affairs to accompany H.J. Res. 224. Sept. 16, 1969. 2 p.
- 15279 495. Disaster relief act of 1969. Conference report to accompany H.R. 6508. Sept. 17, 1969. 14 p.
- 15280 496. Postal systems of United States Armed Forces, San Francisco critique. [Report from] Committee on Post Office and Civil Service; Sept. 18, 1969. 1969. v+19 p.
- 15281 497. Appropriation for Treasury and Post Office Department, Executive Office of the President, and certain independent agencies. Conference report to accompany H.R. 11580. Sept. 18, 1969. 4 p.
- 15282 498. Granting additional travel authority to Committee on Public Works. Report from Committee on Rules to accompany H. Res. 538. Sept. 23, 1969. 1 p.
- 15283 499. Consideration of H.R. 4314. Reports from Committee on Rules to accompany H. Res. 555. Sept. 23, 1969. 1 p.
- 15284 500. Consideration of H.R. 13369. Report from Committee on Rules to accompany H. Res. 556. Sept. 23, 1969. 1 p.
- 15285 501. Amending sec. 19(e) of Securities exchange act of 1934. Report from Committee on Interstate and Foreign Commerce to accompany H.J. Res. 754. Sept. 23, 1969. 5 p.
- 15286 512. Providing for printing of copies of eulogies on Dwight David Eisenhower. Report from Committee on House Administration to accompany H. Con. Res. 368. Sept. 24, 1969. 1 p.
- 15287 513. Authorizing printing as House document of hearings on Sciences and strategies for national security in the 1970's by Subcommittee on National Security Policy and Scientific Development and of additional copies thereof. Report from Committee on House Administration to accompany H. Con. Res. 338. Sept. 24, 1969. 1 p.
- 15288 514. Authorizing printing as House document of Captive Nations Week proclamations and pertinent material. Report from Committee on House Administration to accompany H. Res. 368. Sept. 24, 1969.
- 15289 515. Authorizing reprinting of Centralization of Federal science activities. Report from Committee on House Administration to accompany H. Res. 485. Sept. 24, 1969. 1 p.
- 15290 516. Amending act of Mar. 2, 1931, to provide that certain proceedings of Italian American War Veterans of United States, Inc., shall be printed as House document, and for other purposes. Report from Committee on House Administration to accompany H.R. 10481. Sept. 24, 1969. 1 p.
- 15291 517. Elimination of construction details on passenger vessels. Report from Committee on Merchant Marine and Fisheries to accompany H.R. 210. Sept. 24, 1969. 9 p.
- 15292 518. Amending sec. 613 of Merchant marine act, 1936. Report from Committee on Merchant Marine and Fisheries to accompany H.R. 12605. Sept. 24, 1969. 13 p.
- 15293 520. Water carrier mixing rule. Report together with separate and dissenting views from Committee on Interstate and Foreign Commerce to accompany H.R. 8298. Sept. 25, 1969. 36 p.
- 15294 521. Authorizing appropriations for metric study. Report from Committee on Science and Astronautics to accompany S. 1287. Sept. 25, 1969. 3 p.
- 15295 522. Authorizing appropriations for military procurement, research and development, fiscal year 1970, and reserve strength, and for other purposes. Report from Committee on Armed Services to accompany H.R. 14000. Sept. 26, 1969. 176 p. il.
- 15296 523. Office of Economic Opportunity and Medical Foundation of Bellaire, Ohio. 8th report by Committee on Government Operations [based on study by Special Studies Subcommittee]; Sept. 27, 1969. 1969. vii+85 p. il.

GOVERNMENT PUBLICATIONS

House reports on public bills, 91st Congress—Continued

- 15297 539. Housing and urban development act of 1969. Report together with dissenting views from Committee on Banking and Currency to accompany H.R. 13827. Sept. 30, 1969. 176 p.
- 15298 548. Public works for water, pollution control, and power development and Atomic Energy Commission appropriation bill, 1970. Report from Committee on Appropriations to accompany H.R. 14159. Oct. 12, 1969. 107 p.

Appropriations Committee, House

Washington, DC 20515

- 15299 Foreign assistance and related agencies appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session.

pt. 1 Military assistance, related agencies, Asian Development Bank, Cuban refugees, Export-Import Bank, Inter-American Development Association, migration and refugee assistance, Peace Corps, Ryukyu Islands, statement of Secretary of State, 1969. ii+954+xvi p. † ● Item 1011
L.C. card 79-604008 Y 4.Ap 6/1 : F 76/3/970/pt.1

- 15300 Legislative branch appropriations for 1970, additional hearings before subcommittee, 91st Congress, 1st session, [on] extension of west central front of Capitol Building. 1969. ii+141+iv p. (Subcommittee on Legislative Branch Appropriations.) † ● Item 1011
L.C. card 60-61305 Y 4.Ap 6/1 : L 52/970-2

- 15301 Military construction appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session. † ● Item 1011
L.C. card 76-603881 Y 4.Ap 6/1 : M 59/6/970/pt. (nos.)
pt. 1. Office of Secretary of Defense, Safeguard. 1969. ii+208+iv p. ii.
pt. 2. Department of Air Force, Department of Army. 1969. ii+1226+xi p. ii.

Armed Services Committee, House

Washington, DC 20515

[Papers], 91st Congress. † ● Item 1012 Y 4.Ar 5/2a : 969-70/(nos.)

NOTE.—These papers consist largely of hearings. They are paged continuously for binding at the end of session of Congress under title "Hearings before Committee on Armed Services of the House of Representatives on sundry legislation affecting the naval and military establishments." Title page, contents, and index are issued for each volume.

- 15302 14. Hearings on military posture and legislation to authorize appropriations during fiscal year 1970 for procurement of aircraft, missiles, naval vessels, and tracked combat vehicles, research, development, test, and evaluation for Armed Forces, and to prescribe authorized strength of Reserve Forces, and for other purposes, 91st Congress, 1st session. [1969.]
L.C. card 70-603877
pt. 1. Mar 27—May 15, 1969. cover title, 1701-2860+xvii p. ii. * Paper, \$5.00.
pt. 2. May 20—Aug. 8, 1969. cover title, 2861-4361+xviii p. ii. * Paper, \$6.00.
- 15303 15. Subcommittee on real estate hearings on H.R. 7618, to provide for conveyance of certain real property of Federal Government to Board of Public Instruction, Okaloosa County, Fla. Sept. 18, 1969. p. 4363-77. †
- 15304 16. Subcommittee no. 2 hearings on H.R. 8662, to authorize command of U.S.S. Constitution (IX-21) by retired officers of Navy; H.R. 8664, to authorize increase in number of flag officers who may serve on certain selection boards in Navy and in number of officers of Naval Reserve and Marine Corps Reserve who are eligible to serve on selection boards considering reserves for promotion, H.R. 9564, to remove restrictions on grades of director and assistant directors of Marine Corps band; and H.R. 10317, to adjust date of rank of commissioned officers of Marine Corps. Sept. 18, 1969. p. 4379-91. †
- 15305 17. Subcommittee no. 1 hearing on H.R. 4296, to amend title 37, United States Code, to provide for procurement and retention of judge advocates and law specialist officers for Armed Forces. Sept. 11, 1969. p. 4393-4465. †
- 15306 18. Subcommittee no. 4 hearings on H.R. 11548, to amend title 10, United States Code, to permit naval flight officers to be eligible to command certain naval activities and for other purposes, and H.R. 92, to amend title 37, United States Code, to modify requirements necessary to establish entitlement to incentive pay for members of submarine operational command staffs serving on submarine during underway operations. Oct. 10, 1969. p. 4467-81. †
- 15307 20. Full committee consideration of H.R. 4296, H.R. 8662, H.R. 8664, H.R. 9564, H.R. 10317, H.R. 82, H.R. 11548, H.R. 7618, and H.R. 14001. Oct. 16, 1969. p. 4755-91. †

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Banking and Currency Committee, House

Washington, DC 20515

- 15308 Coinage act of 1969, hearings, 91st Congress, 1st session, on H.R. 13252, Oct. 1 and 3, 1969. 1969. iv+98 p. † ● Item 1013
L.C. card 75-603889 Y 4.B 22/1 : C 66/4/969
- 15309 Population trends, hearings before Ad Hoc Subcommittee on Urban Growth, 91st Congress, 1st session.
pt. 1. June 3-July 31, 1969. 1969. iv+803 p. il. 9 tab. in pocket. * Paper, \$4.50.
● Item 1013
L.C. card 79-603768 Y 4.B 22/1 : P 81/pt.1
- 15310 To extend and amend Export control act of 1949, hearings before Subcommittee on International Trade, 91st Congress, 1st session, on H.R. 4293, May 22-July 24, 1969. 1969. v+449 p. † ● Item 1013
L.C. card 75-603767 Y 4.B 22/1 : Ex 7/7/969

Education and Labor Committee, House

Washington, DC 20515

- 15311 Benefits to employees in mining industry, hearings before Select Subcommittee on Labor, 91st Congress, 1st session, on H.R. 11476, June 3-July 15, 1969. 1969. iv+260 p. † ● Item 1015
L.C. card 72-603880 Y 4.Ed 8/1 : M 66/7
- 15312 Campus unrest, hearing, 91st Congress, 1st session, on problems of higher education, including those relating to student financial assistance, particularly in regard to eligibility provisions of sec. 504 of higher education amendments of 1968, June 16, 1969. 1969. iv+250 p. † ● Item 1015
L.C. card 70-603869 Y 4.Ed 8/1 : C 15
- 15313 Campus unrest, hearings before Special Subcommittee on Education, 91st Congress, 1st session, on problems of higher education, including those relating to student financial assistance, particularly in regard to eligibility provisions of sec. 504 of higher education amendments of 1968, Feb. 3-May 22, 1969. 1969. xii+980 p. † ● Item 1015
L.C. card 77-604096 Y 4.Ed 8/1 : C 15/969-2
- 15314 School construction, hearings before General Subcommittee on Education, 91st Congress, 1st session, on H.R. 517, Feb. 25-May 8, 1969. 1969. iv+196 p. il. † ● Item 1015
L.C. card 76-603865 Y 4.Ed 8/1 : Sch 6/23/69
- 15315 Survey of ex-job corpsmen (conducted by Louis Harris and Associates). 1969. ii+68 p. [Appendix to hearing on H.R. 513, Apr. 17, 1969.] † ● Item 1015
Y 4.Ed 8/1 : Ec 7/969/app.

Foreign Affairs Committee, House

Washington, DC 20515

- 15316 Overseas Private Investment Corporation, title 2 of H.R. 11792, Foreign assistance act of 1969, hearings before Subcommittee on Foreign Economic Policy, 91st Congress, 1st session, Aug. 5-Sept. 18, 1969. iv+218 p. † ● Item 1017
L.C. card 77-603868 Y 4.F 76/1 : Ov 2

Government Operations Committee, House

Washington, DC 20515

- 15317 Authorizing appropriations for Office of Intergovernmental Relations, hearing before subcommittee, 91st Congress, 1st session, on H.J. Res. 757, Aug. 7, 1969. 1969. iii+24 p. † ● Item 1016
L.C. card 71-604006 Y 4.G 74/7 : In 8/15
- 15318 Efficiency and effectiveness of operations of Civil Aeronautics Board, hearing before subcommittee, 91st Congress, 1st session, July 24, 1969. 1969. iii+56 p. † ● Item 1016
L.C. card 70-604070 Y 4.G 74/7 : C 49/5

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 21

GOVERNMENT PUBLICATIONS

House Administration Committee, House

Washington, DC 20515

- 15319 U.S. House of Representatives, detailed statement of disbursements, Jan. 1-June 30, 1969. 1969. v+182 p. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 62-61072 Y 4.H 81/3 : D 63/969

Interior and Insular Affairs Committee, House

Washington, DC 20515

- [Committee hearings] serial, 91st Congress. † ● Item 1023
Y 4.In 8/14 : 91-(nos.)

- 15320 7. Sawtooth National Recreation Area, hearing before Subcommittee on National Parks and Recreation, 91st Congress, 1st session, on H.R. 5999, July 10, 1969. 1969. iv+124 p.
L.C. card 78-603879
- 15321 8. Alaska native land claims, hearings before Subcommittee on Indian Affairs, 91st Congress, 1st session, on H.R. 13142 and H.R. 10193, Aug. 4-Sept. 9, 1969. 1969. iv+363 p. il. 2 maps.
L.C. card 76-603873

Internal Security Committee, House

Washington, DC 20515

NOTE.—The name of the Un-American Activities Committee has been changed to the Internal Security Committee.

Investigation of Students For a Democratic Society, hearings, 91st Congress, 1st session. ● Item 1026
L.C. card 70-602885 Y 4.In 8/15 : St 9/pt. (nos.)

- 15322 pt. 3-A. George Washington University, July 22, 1969. 1969. v+643-869+viil p. il. * Paper, \$1.00.
- pt. 3-B. George Washington University, July 23 and 24, 1969. 1969. v+871-1047+x p. il. * Paper, 70c.
- pt. 4. American University, July 24, 1969. 1969. v+1049-1145+iv p. il. * Paper, 45c.

Interstate and Foreign Commerce Committee, House

Washington, DC 20515

- [Committee hearings] serial, 91st Congress. † ● Item 1019
Y 4.In 8/4 : 91-(nos.)

- 15323 22. Aviation facilities maintenance and development, hearings, 91st Congress, 1st session, on H.R. 12374 and H.R. 12780 and related bills, pt. 1, July 21-Sept. 10, 1969. 1969. viii+1-421 p. il.
L.C. card 73-603702
- 15324 23. Aviation facilities maintenance and development, hearings, 91st Congress, 1st session, on H.R. 12374 and H.R. 12780 and related bills, pt. 2, July 21-Sept. 10, 1969. 1969. viii+423-773 p. il.
L.C. card 73-603702
- 15325 24. Extension of SEC institutional investor study, hearing before Subcommittee on Commerce and Finance, 91st Congress, 1st session, on H.R. 11608, H.J. Res. 754, and S.J. Res. 112, Sept. 15, 1969. 1969. iii+32 p.
L.C. card 71-603707

Public Works Committee, House

Washington, DC 20515

[Committee publication], 91st Congress.

- 15326 10. Vehicle weight and dimension limitations, hearings before Subcommittee on Roads, 91st Congress, 1st session, on H.R. 11870 [and] H.R. 11619, July 8-Sept. 4, 1969. 1969. ix+835 p. il. 1 tab. * Paper, \$3.75. ● Item 1024
L.C. card 70-603882 Y 4.P 96/11 : 91-10

Science and Astronautics Committee, House

Washington, DC 20515

- 15327 Apollo program management, staff study for Subcommittee on NASA Oversight, 91st Congress, 1st session, July 1969; [prepared by James E. Wilson and Peter A. Gerardi]. 1969. ix+262 p. il. (Serial C. committee print.) [Includes Bibliography of key Apollo documents and Apollo program directives.] ‡
L.C. card 72-603411 Y 4.Sci 2 : 91-1/C

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

[Paper], 91st Congress.

- 15328 S. Congressional Space Medal, hearing before Subcommittee on Manned Space Flight, 91st Congress, 1st session, Sept. 12, 1969. 1969. iii+3 p. † ● Item 1025-A
L.C. card 78-603706 Y 4.Sci 2 :91-1/8
- 15329 Publications of Committee on Science and Astronautics, House of Representatives from Feb. 1959-May 1969. [1969.] iv+13 p. (Committee print.) †
L.C. card 76-603376 Y 4.Sci 2 : P 96/959-69
- 15330 Science, technology and public policy during 90th Congress, 1st and 2d sessions, 1967-68, report of Subcommittee on Science, Research, and Development, 91st Congress, 1st session, July 1969 [with list of selected references for 1967 and 1968; [by Warren H. Donnelly and others]. 1969. xi+343 p. (Serial D, committee print.) [Prepared by Science Policy Research Division, Legislative Reference Service, Library of Congress.] †
L.C. card 72-603367 Y 4.Sci 2 : 91-1/D
- 15331 Technology assessment of Vietnam defoliant matter, case history, report to Subcommittee on Science, Research, and Development, 91st Congress, 1st session, Aug. 8, 1969; [by Franklin P. Huddle]. 1969. vii+73 p. (Serial F, committee print.) [Prepared by Science Policy Research Division, Legislative Reference Service, Library of Congress.] †
L.C. card 70-603369 Y 4.Sci 2 : 91-1/F
- 15332 28th International Paris Airshow, Le Bourget Field, Paris, France, report, 91st Congress, 1st session, July 3, 1969. 1969. iii+14 p. (Serial E, Committee print.) †
L.C. card 74-603397 Y 4.Sci 2 : 91-1/E

Small Business, Select Committee on, House

Washington, DC 20515

- 15333 Allocation of radio frequency spectrum and its impact on small business (1969), hearings before Subcommittee on Activities of Regulatory Agencies, 91st Congress, 1st session, pursuant to H. Res. 66, June 9-July 29, 1969. 1969. v+399+A333 p. il. † ● Item 1031
L.C. card 73-603891 Y 4.Sm 1 : R 11/2
- 15334 Organization and operation of Small Business Administration (1969), hearings, 91st Congress, 1st session, pursuant to H. Res. 66, July 22-25, 1969. 1969. vi+465+176 p. il. † ● Item 1031
L.C. card 70-603890 Y 4.Sm 1 : Sm 1/4/969

Veterans' Affairs Committee, House

Washington, DC 20515

- 15335 Dependency and indemnity compensation bills, hearings before Subcommittee on Compensation and Pensions, 91st Congress, 1st session, on bills pertaining to dependency and indemnity compensation for survivors of veterans whose deaths were from service-connected causes. 1969. vi+2027-2235. p. † ● Item 1027
L.C. card 73-603867 Y 4.V 64/3 : C 73/18
- 15336 Pending insurance bills, hearing before Subcommittee on Insurance, 91st Congress, 1st session, on bills related to veterans' insurance programs, Sept. 17, 1969. 1969. vi+2237-2455 p. il. † ● Item 1027
L.C. card 70-603885 Y 4.V 64/3 : In 7/14

Ways and Means Committee, House

Washington, DC 20515

- 15337 Administration's proposal on aviation user charges, hearings, 91st Congress, 1st session, Sept. 16-19, 1969. 1969. iv+337 p. il. † ● Item 1028
L.C. card 72-603899 Y 4.W 36 : Av 5

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15338 Summary of H.R. 13270, Tax reform act of 1969, as passed by House of Representatives. 1969. v+26 p. (Committee print, 91st Congress, 1st session.) [Prepared by Legislative Reference Service, Library of Congress, in conjunction with staff of committee.] ‡
L.C. card 73-603378 Y 4.W 36 : T 19/49

INTERNAL REVENUE TAXATION JOINT COMMITTEE Washington, DC 20515

- 15339 Summary of testimony on allocation of deductions at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 11, 1969. 1969. [1]+3 p. (Committee print.) ‡
L.C. card 71-603399 Y 4.In 8/11 : D 36/2
- 15340 Summary of testimony on bad debt reserves of commercial banks at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 8, 1969. 1969. [1]+3 p. (Committee print.) ‡
L.C. card 71-603380 Y 4.In 8/11 : D 35/2
- 15341 Summary of testimony on capital gains at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 9, 1969. 1969. [1]+8 p. (Committee print.) ‡
L.C. card 75-603381 Y 4.In 8/11 : C 17
- 15342 Summary of testimony on deferred executive compensation at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; June 18, 1969. 1969. [1]+4 p. (Committee print.) ‡
L.C. card 79-603382 Y 4.In 8/11 : C 73
- 15343 Summary of testimony on depletable resources at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 10, 1969. 1969. [1]+13 p. (Committee print.) ‡
L.C. card 72-603383 Y 4.In 8/11 : D 44
- 15344 Summary of testimony on minimum and maximum taxes at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 11, 1969. 1969. [1]+11 p. (Committee print.) ‡
L.C. card 76-603384 Y 4.In 8/11 : T 19/15
- 15345 Summary of testimony on standard deduction at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 28, 1969. 1969. [1]+7 p. (Committee print.) ‡
L.C. card 73-603386 Y 4.In 8/11 : D 36
- 15346 Summary of testimony on subchapter S corporations at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 8, 1969. 1969. [1]+7 p. (Committee print.) ‡
L.C. card 0-603385 Y 4.In 8/11 : C 81/2
- 15347 Summary of testimony on tax treatment of State and local bond interest at public hearings, Feb. 19-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 9, 1969. 1969. [1]+11 p. (Committee print.) ‡
L.C. card 77-603387 Y 4.In 8/11 : T 19/13

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 15348 Summary of testimony on taxation of single persons and married couples at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform of Joint Committee on Internal Revenue Taxation; June 9, 1969. 1969. [1]+2 p. (Committee print.) ‡
L.C. card 70-603388 Y 4.In 8/11: T 19/12
- 15349 Summary of testimony on treatment of tax depreciation by regulatory agencies at public hearings, Feb. 18-Apr. 24, 1969, held by Committee on Ways and Means on subject of tax reform, prepared by staff of Joint Committee on Internal Revenue Taxation; July 11, 1969. 1969. [1]+12 p. (Committee print.) ‡
L.C. card 74-603389 Y 4.In 8/11: T 19/14
- 15350 Summary of testimony submitted to Committee on Finance with respect to extension of surcharge and repeal of investment credit, prepared for use of Committee on Finance, Senate, by staff of Joint Committee on Internal Revenue Taxation; July 18, 1969. 1969. iii+24 p. (Committee print.) ‡
L.C. card 74-603370 Y 4.In 8/11: Su 7

SENATE
Washington, DC 20510

Senate documents

NOTE.—All Senate documents, entries for which are followed by a ‡, may be obtained from the Senate Document Room or from the issuing office.
Senate documents, 91st Congress.

- 15351 26. Prayers offered by chaplain of Senate, Frederick Brown Harris, during 89th Congress and 90th Congresses, 1965-68; Apr. 3, 1969. [1969.] xv+228 p. 1 por. 12° ‡ (To be sent to depository libraries in Serial set binding.)
L.C. card 41-51390
- 15352 32. Frenchboro Harbor, Maine, letter from Chief of Engineers, Army, submitting report; Sept. 5, 1969. 1969. x+36 p. 2 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15561.] ‡

Senate executive documents

Senate executive documents, 91st Congress, 1st session. ‡
Y 1.91/1: (letters)

- 15353 F. Consular convention with Belgium, message from President of United States transmitting consular convention between United States and Kingdom of Belgium, signed Washington Sept. 2, 1969, and 2 exchanges of notes related thereto; Oct. 8, 1969. 1969. vi+18 p.
- 15354 G. Tax convention with Netherlands, message from President of United States transmitting convention between United States and Kingdom of Netherlands for avoidance of double taxation and prevention of fiscal evasion with respect to taxes on estates and inheritances, signed Washington July 15, 1969, and related protocol signed on same date; Oct. 13, 1969. 1969. vi+17 p.
- 15355 H. Agreement with Canada on adjustments in flood control payments, message from President of United States transmitting texts of 2 notes, signed Washington Aug. 18 and 20, 1969, constituting agreement between United States and Canada concerning adjustments in flood control payments by United States to Canadian Government as result of early completion of projects (Arrow Dam and Duncan Dam) contemplated by art. 11 (2) (b) and (c) of Columbia River treaty; Oct. 14, 1969. 1969. [1]+5 p.

Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on public bills, 91st Congress. ‡ Senate Document Room, Capitol. ● Item 1008-A

- 15356 336. Export expansion and regulation act. Report of Committee on Banking and Currency, Senate, to accompany S. 2696, together with minority, supplemental and individual views, July 24, 1969. 1969. iii+31 p.
- 15357 337. Gold medal for American astronauts. Report from Committee on Banking and Currency to accompany S.J. Res. 140, July 29, 1969. 3p.
- 15358 338. United States recognition of foreign governments. Report together with individual views from Committee on Foreign Relations to accompany S. Res. 205, July 29, 1969. 6 p.

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Senate reports on public bills, 91st Congress—Continued

- 15359 339. Civil service retirement. Report from Committee on Post Office and Civil Service to accompany S. 2754, Aug. 1, 1969, 21 p.
- 15360 340. Older Americans act amendments of 1969. Report from Committee on Labor and Public Welfare to accompany H.R. 11235, Aug. 5, 1969, 27 p. [Corrected print.]
- 15361 344. Release of retained rights in conveyance to Board of Education of Lee County, S.C. Report from Committee on Agriculture and Forestry to accompany H.R. 9946, Aug. 6, 1969, 3 p.
- 15362 346. Procedures of seed certifying agencies. Report from Committee on Agriculture and Forestry to accompany S. 1836, Aug. 6, 1969, 5 p.
- 15363 349. Authorizing printing for use of Committee on Government Operations of additional copies of pt. 19 of its hearings entitled Riots, civil and criminal disorders. Report from Committee on Rules and Administration to accompany S. Res. 216, Aug. 7, 1969, 2 p.
- 15364 350. Authorizing printing for use of Committee on Government Operations of additional copies of pt. 20 of its hearings entitled Riots, civil and criminal disorders. Report from Committee on Rules and Administration to accompany S. Res. 217, Aug. 7, 1969, 2 p.
- 15365 364. Establishing Lyndon B. Johnson National Historic Site. Report from Committee on Interior and Insular Affairs to accompany S. 2000, Aug. 8, 1969, 3 p.
- 15366 365. Providing for development of Eisenhower National Historic Site at Gettysburg, Pa., and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S.J. Res. 26, Aug. 8, 1969, 8 p.
- 15367 366. Amending sec. 21(e) of act of Oct. 3, 1965. Report from Committee on Judiciary to accompany S. 2593, Aug. 8, 1969, 3 p.
- 15368 368. Emergency insured student loan act of 1969. Report from Committee on Labor and Public Welfare to accompany S. 2721, Aug. 8, 1969, 10 p. [Corrected print.]
- 15369 390. Establishing national minerals policy. Report from Committee on Interior and Insular Affairs to accompany S. 719, Sept. 3, 1969, 12 p.
- 15370 391. Chouteau Lock and Dam, Okla. Report from Committee on Public Works to accompany S. 1499, Sept. 3, 1969, 3 p.
- 15371 392. Housing and urban development act of 1969. Report, together with individual views, from Committee on Banking and Currency, to accompany S. 2864; Sept. 5, 1969, 1969, iv+55 p.
- 15372 393. Providing for loans to Indian tribes and tribal corporations, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S. 227, Sept. 9, 1969, 6 p.
- 15373 394. National Adult-Youth Communications Week. Report from Committee on Judiciary to accompany H.J. Res. 614, Sept. 9, 1969, 1 p.
- 15374 395. Golden eagle program. Report from Committee on Interior and Insular Affairs to accompany S. 2315, Sept. 9, 1969, 24 p.
- 15375 396. Establishment of William Howard Taft National Historic Site. Report from Committee on Interior and Insular Affairs to accompany S. 560, Sept. 10, 1969, 4 p.
- 15376 397. Extending for 3 months authority to limit rates of interest or dividends payable on time and savings deposits and accounts. Report from Committee on Banking and Currency to accompany S.J. Res. 149, Sept. 10, 1969, 1 p.
- 15377 398. Increasing servicemen's group life insurance to \$15,000. Report from Committee on Finance to accompany S. 1479, Sept. 16, 1969, 7 p.
- 15378 399. Vietnam era veterans' life insurance. Report from Committee on Finance to accompany S. 2003, Sept. 16, 1969, 23 p.
- 15379 400. Increase in dependency and indemnity compensation for survivors of servicemen and veterans. Report from Committee on Finance to accompany S. 1471, Sept. 16, 1969, 20 p.
- 15380 401. Double indemnity servicemen's group life insurance coverage for servicemen assigned to extrahazardous duty. Report from Committee on Finance to accompany S. 1650, Sept. 16, 1969, 8 p.
- 15381 402. Dismemberment insurance coverage under servicemen's group life insurance. Report from Committee on Finance to accompany S. 2186, Sept. 16, 1969, 6 p.
- 15382 403. Exempting public international organizations from District of Columbia unemployment compensation act. Report from Committee on District of Columbia to accompany H.R. 9526, Sept. 16, 1969, 7 p.
- 15383 404. Adoption of interstate compact on juveniles by District of Columbia. Report from Committee on District of Columbia to accompany S. 2335, Sept. 16, 1969, 9 p.
- 15384 405. Reorganizing courts of District of Columbia, and for other purposes. Report from Committee on District of Columbia to accompany S. 2601, Sept. 16, 1969, 44 p.
- 15385 406. General von Steuben Memorial Day. Report from Committee on Judiciary to accompany H.J. Res. 250, Sept. 16, 1969, 2 p.
- 15386 407. Authorizing printing for use of Committee on Government Operations of additional copies of pt. 21 of its hearings entitled Riots, civil and criminal disorders. Report from Committee on Rules and Administration to accompany S. Res. 246, Sept. 17, 1969, 2 p.
- 15387 408. Authorizing printing for use of Committee on Government Operations of additional copies of pt. 22 of its hearings entitled Riots, civil and criminal disorders. Report from Committee on Rules and Administration to accompany S. Res. 247, Sept. 17, 1969, 2 p.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

- 15388 409. Authorizing printing for use of Committee on Government Operations of additional copies of pt. 23 of its hearings entitled Riots, civil and criminal disorders. Report from Committee on Rules and Administration to accompany S. Res. 248. Sept. 17, 1969. 2 p.
- 15389 410. Authorizing printing of additional copies of pt. 1 of hearings entitled Economics of aging. Report from Committee on Rules and Administration to accompany S. Res. 250. Sept. 17, 1969. 2 p.
- 15390 411. Federal coal mine health and safety act of 1969. Report from Committee on Labor and Public Welfare together with individual views to accompany S. 2917. Sept. 17, 1969. 111 p.
L.C. card 74-604039
- 15391 412. Authorizing printing revised edition of publication Our Capitol as House document. Report from Committee on Rules and Administration to accompany H. Con. Res. 193. Sept. 17, 1969. 2 p.
- 15392 413. Authorizing printing of catalog entitled 1969 listing of operating Federal assistance programs compiled during Roth study as House document. Report from Committee on Rules and Administration to accompany H. Con. Res. 309. Sept. 17, 1969. 4 p.
- 15393 414. Peace Corps amendments. Report from Committee on Foreign Relations to accompany H.R. 11039. Sept. 17, 1969. 11 p.
- 15394 416. Potato and tomato promotion. Report from Committee on Agriculture and Forestry to accompany S. 1181. Sept. 18, 1969. 8 p.
- 15395 417. Tulelake area durum wheat allotments. Report from Committee on Agriculture and Forestry to accompany S. 858. Sept. 18, 1969. 5 p.
- 15396 418. Potatoes for processing, exemption from marketing orders. Report from Committee on Agriculture and Forestry to accompany S. 2214. Sept. 18, 1969. 4 p.
- 15397 419. Providing for temporary extension of rural housing programs and Federal Housing Administration insurance authority, and to extend period during which Secretary of Housing and Urban Development may establish maximum interest rates on insured loans. Report from Committee on Banking and Currency to accompany S.J. Res. 152. Sept. 18, 1969. 1 p.
- 15398 420. Interior Department and related agencies appropriations bill, 1970. Report from Committee on Appropriations to accompany H.R. 12781. Sept. 18, 1969. 51 p.
- 15399 421. Marketing quota review committees. Report from Committee on Agriculture and Forestry to accompany S. 2226. Sept. 22, 1969. 3 p.
- 15400 422. Establish Cabinet Committee on Opportunities for Spanish-speaking People. Report from Committee on Government Operations to accompany S. 740. Sept. 23, 1969. 5 p.
- 15401 423. Amending Federal property and administrative services act of 1949 so as to permit donations of surplus property to public museums. Report from Committee on Government Operations to accompany S. 2210. Sept. 24, 1969. 7 p.
- 15402 424. Amending Federal property and administrative services act of 1949 to permit rotation of certain property whenever its remaining storage or shelf life is too short to justify its retention, and for other purposes. Report from Committee on Government Operations to accompany S. 406. Sept. 24, 1969. 12 p.
- 15403 425. Releasing conditions in deed with respect to certain portion of land heretofore conveyed by United States to Salt Lake City Corporation. Report from Committee on Government Operations to accompany S. 1366. Sept. 24, 1969. 7 p.
- 15404 426. Conveying to Cheyenne, Wyo., certain real property of United States heretofore donated to United States by such city. Report from Committee on Government Operations to accompany S. 1718. Sept. 24, 1969. 7 p.
- 15405 427. Establishing Commission on Government Procurement. Report from Committee on Government Operations to accompany S. 1707. Sept. 24, 1969. 29 p.
- 15406 428. Interest equalization tax extension act of 1969. Report from Committee on Finance to accompany H.R. 12829. Sept. 24, 1969. 30 p.
- 15407 429. District of Columbia revenue act of 1969. Report from Committee on District of Columbia to accompany H.R. 12982. Sept. 24, 1969. 67 p.
- 15408 430. Authorizing appropriations for expenses of Office of Intergovernmental Relations. Report from Committee on Government Operations to accompany S.J. Res. 117. Sept. 24, 1969. 4 p.
- 15409 431. Establish Commission on Population Growth and American Future. Report from Committee on Government Operations to accompany S. 2701. Sept. 24, 1969. 10 p.
- 15410 432. Abolishing the Commission authorized to consider site and plans for building National Memorial Stadium in District of Columbia. Report from Committee on District of Columbia to accompany S. 1484. Sept. 25, 1969. 2 p.
- 15411 433. Establishing nonvoting delegate to House of Representatives from District of Columbia and amending District of Columbia election act. Report from Committee on District of Columbia to accompany S. 2163. Sept. 25, 1969. 4 p.
- 15412 434. Establishing Commission on Government for District of Columbia. Report from Committee on District of Columbia to accompany S. 2164. Sept. 25, 1969. 7 p.
- 15413 435. Land conveyance to Maryland. Report from Committee on Armed Services to accompany H.R. 10420. Sept. 25, 1969. 6 p.

☎For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 27

GOVERNMENT PUBLICATIONS

Aging, Special Committee on, Senate

Washington, DC 20510

- 15414 Economics of aging, toward a full share in abundance, hearings, 91st Congress, 1st session.
L.C. card 76-603995 Y 4.Ag 4: Ec 7/pt.1
pt. 1. Survey hearing, Apr. 29-30, 1969. 1969. v+332 p. il. * Paper, \$1.25.
● Item 1009

Appropriations Committee, Senate

Washington, DC 20510

- 15415 Legislative branch appropriations for fiscal year 1970, hearings before subcommittee, 91st Congress, 1st session, on H.R. 13763. 1969. ii+772 +vii p. il. † ● Item 1033
L.C. card 60-61605 Y 4.Ap 6/2: L 52/970

Armed Services Committee, Senate

Washington, DC 20510

- 15416 Gen. John D. Ryan, Chief of Staff, Air Force, hearing, 91st Congress, 1st session, on nomination of John Dale Ryan for appointment as Chief of Staff, Air Force, July 24, 1969. 1969. ii+10 p. † ● Item 1034
L.C. card 70-603704 Y 4.Ar 5/3: R 95
- 15417 Nomination of Philip N. Whittaker to be Assistant Secretary of Air Force, and S.J. Res. 104 and H.R. 9328, hearing, 91st Congress, 1st session, May 1, 1969. 1969. iii+41 p. † ● Item 1034
L.C. card 74-603705 Y 4.Ar 5/3: W 61

Banking and Currency Committee, Senate

Washington, DC 20510

- 15418 Consumer credit insurance act of 1969, hearings before Subcommittee on Financial Institutions, 91st Congress, 1st session, on S. 1754, June 26-July 1, 1969. 1969. vii+357 p. il. † ● Item 1035
L.C. card 77-604002 Y 4.B 22/3: C 76/11
- 15419 Deposit rates and mortgage credit, hearings before Subcommittee on Financial Institutions, 91st Congress, 1st session, on S. 2499 [and] S. 2577, Sept. 9-22, 1969. 1969. vi+241 p. il. † ● Item 1035
L.C. card 73-603997 Y 4.B 22/3: D 44/3
- 15420 Independent agency for credit unions, hearing, 91st Congress, 1st session, on S. 2298 and H.R. 2, Sept. 23, 1969. 1969. iii+49 p. † ● Item 1035
L.C. card 70-603996 Y 4.B 22/3: C 86/10
- 15421 Mobile homes, hearings before Subcommittee on Housing and Urban Affairs, 91st Congress, 1st session, on S. 2740, Sept. 12 and 15, 1969. 1969. iii+67 p. il. † ● Item 1035
L.C. card 77-603884 Y 4.B 22/3: M 71
- 15422 Nomination of A. Sydney Herlong, hearing, 91st Congress, 1st session, on nomination of A. Sydney Herlong to be member of Securities and Exchange Commission, Sept. 18, 1969. 1969. ii+5 p. † ● Item 1035
L.C. card 72-603864 Y 4.B 22/3: H 42
- 15423 Nomination of Eugene A. Gulledge, hearing, 91st Congress, 1st session, on nomination of Eugene A. Gulledge to be Assistant Secretary of Department of Housing and Urban Development, Sept. 25, 1969. 1969. iii+9 p. † ● Item 1035
L.C. card 73-604001 Y 4.B 22/3: G 95
- 15424 Progress report on Federal housing and urban development programs, description of each of Federal programs on housing and urban development (including mass transportation) and progress of these programs, Sept. 1969. 1969. xi+183 p. (Committee print, 91st Congress, 1st session; Subcommittee on Housing and Urban Affairs.) * Paper, 70c.
L.C. card 72-603951 Y 4.B 22/3: H 81/53/969

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Commerce Committee, Senate

Washington, DC 20510

[Committee hearings] serial, 91st Congress. † ● Item 1041

Y 4.C 73/2: 91-(nos.)

- 15425 15. Effects of pesticides on sports and commercial fisheries, hearings before Subcommittee on Energy, Natural Resources, and Environment, 91st Congress, 1st session, to consider effects of pesticides on sports and commercial fisheries.
pt. 1. May 19, 1969, 1969. iii+278 p. il.
L.C. card 71-603766
- 15426 16. Review of I.C.C. policies and practices, hearings before Subcommittee on Surface Transportation, 91st Congress, 1st session, June 24 and 25, 1969. 1969. iii+352 p.
L.C. card 75-603870
- 15427 17. Motor vehicle safety, 1969, hearings, 91st Congress, 1st session, on S. 1245, Apr. 14 and 15, 1969, 1969. iv+322 p. il.
L.C. card 79-603871
- 15428 18. Amend Communications act of 1934, hearings before Communications Subcommittee, 91st Congress, 1st session, on S. 2004, with interim report of Surgeon General's Scientific Advisory Committee on Television and Social Behavior, Department of Health, Education and Welfare.
pt. 1. Aug. 5-7, 1969, 1969. iv+342 p. il.
L.C. card 70-603874
- 15429 19. Recovery of reasonable attorney's fee, hearing before Surface Transportation Subcommittee, 91st Congress, 1st session, on S. 1653, June 10, 1969, 1969. iv+98 p.
L.C. card 79-604075

Distict of Columbia Committee, Senate

Washington, DC 20510

- 15430 D.C. revenue proposals, hearings before Subcommittee on Fiscal Affairs, 91st Congress, 1st session, on H.R. 12982, Aug. 12-Sept. 5, 1969, 1969. vi+391 p. † ● Item 1036
L.C. card 72-603872 Y 4.D 63/2: R 32/2/969
- 15431 Regulate practice of psychology, hearing before Public Health, Education, Welfare, and Safety Subcommittee, 91st Congress, 1st session, on S. 1626, June 26, 1969, 1969. iii+90 p. il. † ● Item 1036
L.C. card 70-604000 Y 4.D 63/2: P 95

Finance Committee, Senate

Washington, DC 20510

- 15432 Medicare and medicaid, hearings, 91st Congress, 1st session, July 1 and 2, 1969, 1969. iv+490 p. il. * Paper, \$1.75. ● Item 1038
L.C. card 74-604004 Y 4.F 49: M 46/4
- 15433 [This entry number not used.]
Tax reform act of 1969, H.R. 13270, 1969. (Committee print, 91st Congress, 1st session.)
- 15434 Part A, Testimony to be received Monday, Sept. 15, 1969; pt. B, additional statements (Topic: Financial institutions). iii+162 p. il. * Paper, 65c.
Y 4.F 49: T 19/26/Sept.15
- 15435 Part A, Testimony to be received Wednesday, Sept. 17, 1969; pt. B, Additional statements (Topic: Charitable contributions). iii+352 p. * Paper, \$1.25.
Y 4.F 49: T 19/26/Sept.17
- 15436 Part A, Testimony to be received Monday, Sept. 22, 1969; pt. B, Additional statements (Topics: General, farm losses, cooperatives). iii+490 p. il. * Paper, \$1.75.
Y 4.F 49: T 19/26/Sept.22
- 15437 Part A, Testimony to be received Tuesday, Sept. 23, 1969; pt. B, Additional statements (Topic: Tax treatment of State and local bond interest). iii+343 p. il. * Paper, \$1.25.
Y 4.F 49: T 19/26/Sept.23
- 15438 Part A, Testimony to be received Wednesday, Sept. 24, 1969; pt. B, Additional statements (Topic: Tax treatment of State and local bond interest). iv+420 p. il. * Paper, \$1.50.
Y 4.F 49: T 19/26/Sept.24
- 15439 Part A, Testimony to be received Thursday, Sept. 25, 1969; pt. B, Additional statements (Topics: Limit on tax preferences; allocation of deductions; tax treatment of State and local bond interest; income averaging; maximum tax on earned income). iii+230 p. * Paper, \$1.00.
Y 4.F 49: T 19/26/Sept.25

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Tax reform act of 1969, H.R. 13270, 1969—Continued

- 15440 Part A, Testimony to be received Friday, Sept. 26, 1969; pt. B, Additional statements (Topics: Real estate, depreciation deductions and recapture; public utilities depreciation, earnings and profits, etc.) iii+399 p. il. [Page iii revised issued also.] * Paper, \$1.50. Y 4.F 49: T 19/26/Sept.26
- 15441 Part A, Testimony to be received Monday, Sept. 28, 1969; pt. B, Additional statements (Topics: Public utilities depreciation, earnings and profits, etc.; general; interest deductions; conglomerates, installment method; tax-exempt organizations, advertising income; multiple surtax exemptions). iii+193 p. il. * Paper, 70c. Y 4.F 49: T 19/26/Sept.29
- 15442 Part A, Testimony to be received Tuesday, Sept. 30, 1969; pt. B, Additional statements (Topic: Natural resources; depletion allowances, exploration expenses, production payments (hard minerals)). iii+284 p. il. * Paper, \$1.25. Y 4.F 49: T 19/26/Sept.30
- 15443 Part A, Testimony to be received Wednesday, Oct. 1, 1969; pt. B, Additional statements (Topics: Natural resources; depletion allowances, exploration expenses, production payments, oil and gas). iv+382 p. * Paper, \$1.50. Y 4.F 49: T 19/26/Oct.1
- 15444 Part A, Testimony to be received Thursday, Oct. 2, 1969; pt. B, Additional statements (Topics: General; standard deductions; tax treatment of retired persons; single persons). iii+338 p. * Paper, \$1.25. Y 4.F 49: T 19/26/Oct.2
- 15445 Part A, Testimony to be received Friday, Oct. 3, 1969; pt. B, Additional statements (Topics: General; tax treatment of physically handicapped; tax treatment of treble damages; foreign tax credit). iii+464 p. il. * Paper, \$1.75. Y 4.F 49: T 19/26/Oct.3
- 15446 Part A, Testimony to be received Tuesday, Oct. 7, 1969; pt. B, Additional statements (Topic: Foundations). iv+614 p. il. * Paper, \$2.25. Y 4.F 49: T 19/26/Oct.7
- 15447 Part A, Testimony to be received Wednesday, Oct. 8, 1969; pt. B, Additional statements (Topics: Foundations; general). iv+716 p. il. * Paper, \$2.50. Y 4.F 49: T 19/26/Oct.8
- 15448 Technical memorandum of Treasury position; Sept. 30, 1969. ii+[i]+138 p. * Paper, 55c. Y 4.F 49: T 19/28
- Tax reform act of 1969, hearings, 91st Congress, 1st session, on H.R. 13270, 1969. ● Item 1038
- 15449 pt. 1. Statements and recommendations of Department of Treasury, Sept. 4 and 5, 1969. iv+911 p. * Paper, \$3.75. Y 4.F 49: T 19/27/pt.1
L.C. card 73-603875

Foreign Relations Committee, Senate Washington, DC 20510

- 15450 Activities of nations in ocean space, hearings before Subcommittee on Ocean Space, 91st Congress, 1st session, on S. Res. 33, July 24-30, 1969. 1969. iv+311 p. il. † ● Item 1039
L.C. card 79-603709 Y 4.F 76/2: Oc 2/2
- 15451 American Institute for Free Labor Development, hearing, 91st Congress, 1st session, with George Meany, President, AFL-CIO; Aug. 1, 1969. 1969. iii+126 p. † ● Item 1039
L.C. card 77-603703 Y 4.F 76/2: Am 3/4
- 15452 Foreign assistance act, 1969, hearings, 91st Congress, 1st session, on S. 2347, July 14-Aug. 6, 1969. 1969. v+336+viii p. il. [Hearing held Aug. 6, 1969, sanitized and printed Oct. 8, 1969.] † ● Item 1039
L.C. card 78-603990 Y 4.F 76/2: F 76/13/969
- 15453 Mexico-United States Interparliamentary Group, report of Senate delegation on 9th meeting, held Aguascalientes, Mex., Apr. 1969, by Mike Mansfield; July 24, 1969. 1969. vii+23 p. (Committee print, 91st Congress, 1st session.) †
L.C. card 61-60924 Y 4.F 76/2: M 57/8/969
- 15454 Nominations, hearing, 91st Congress, 1st session, on nominations of: William B. Macomber, jr., of New York, to be Under Secretary of State for Administration; Idar Rimestad, of North Dakota, to be Representative of United States to European Office of United Nations, Geneva; Francis G. Meyer, of Virginia, to be Assistant Secretary of State for Administration; Graham A. Martin, of North Carolina, to be Ambassador to Italy; and John P. Humes, of New York, to be Ambassador to Austria, Sept. 23, 1969. 1969. iii+37 p. † ● Item 1039
L.C. card 72-603994 Y 4.F 76/2: N 72/969-2

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Government Operations Committee, Senate
Washington, DC 20510

- 15455 Establish Commission on Population Growth and American Future, hearing, 91st Congress, 1st session, on S. 2701, Sept. 15, 1969. 1969. iii+244 p. il. † ● Item 1037
L.C. card 76-604069 Y 4.G 74/6: P 81/3
- 15456 Federal programs of grants-in-aid to State and local governments, study of their major characteristics, prepared by [I. M. Labovitz, assisted by Harriet J. Halper and Judy N. Margolis], Legislative Reference Service, for Subcommittee on Intergovernmental Relations; Sept. 22, 1969. 1969. vii+119 p. (Committee print, 91st Congress, 1st session.) * Paper, 50c.
L.C. card 79-604091 Y 4.G 74/6: G 76/5
- 15457 Nomination of Robert F. Keller, hearing, 91st Congress, 1st session, on nomination of Robert F. Keller to be Assistant Comptroller General of United States, Sept. 23, 1969. 1969. iii+15 p. † ● Item 1037
L.C. card 74-603878 Y 4.G 74/6: K 28
- 15458 Planning-programming-budgeting, defense analysis, 2 examples, submitted by Subcommittee on National Security and International Operations, pursuant to S. Res. 24, 91st Cong. 1969. iv+21 p. (Committee print, 91st Congress, 1st session.) †
L.C. card 76-603952 Y 4.G 74/6: P 69/11
- 15459 Riots, civil and criminal disorders, hearings before Permanent Subcommittee on Investigations, 91st Congress, 1st session, pursuant to S. Res. 26, 91st Congress. ● Item 1037
L.C. card 68-60271 Y 4.G 74/6: R 47/pt. (nos.)
pt. 21. July 1-8, 1969. 1969. iv+4499-4764 p. * Paper, \$1.00.
pt. 22. July 9-16, 1969. 1969. v+4765-5146 p. * Paper, \$1.50.
pt. 23. July 22-Aug. 5, 1969. 1969. iv+5147-5311 p. * Paper, 70c.
- 15460 To authorize appropriations for expenses of Office of Intergovernmental Relations, hearing before Subcommittee on Intergovernmental Relations, 91st Congress, 1st session, on S.J. Res. 117, Sept. 9, 1969. 1969. iii+18 p. † ● Item 1037
L.C. card 75-603708 Y 4.G 74/6: In 8/8

Interior and Insular Affairs Committee, Senate
Washington, DC 20510

- 15461 Everglades National Park, hearings, 91st Congress, 1st session, on water supply, the environmental, and jet airport problems, June 3 and 11, 1969. 1969. iv+193 p. il. 4 pl. 2 maps. † ● Item 1040
L.C. card 70-603866 Y 4.In 8/13: Ev 2/969
- 15462 Federally owned locatable minerals, hearing before Subcommittee on Public Lands, 91st Congress, 1st session, on problems relating to development of federally owned locatable minerals, July 2, 1969. 1969. iii+88 p. [Hearing held in Casper, Wyo.] † ● Item 1040
L.C. card 78-603765 Y 4.In 8/13: M 66/34
- 15463 Trans-Alaska pipeline, hearings, 91st Congress, 1st session, on status of proposed Trans-Alaska pipeline.
pt. 1. Sept. 9, 1969. 1969. iv+77 p. il. † ● Item 1040
L.C. card 79-604067 Y 4.In 8/13: T 68/2/pt.1

Judiciary Committee, Senate
Washington, DC 20510

- 15464 Administrative conference authorization, hearing before Subcommittee on Administrative Practice and Procedure, 91st Congress, 1st session, on S. 1144, May 26, 1969. 1969. iii+54 p. † ● Item 1042
L.C. card 79-603993 Y 4.J 89/2: Ad 6/6/969

GOVERNMENT PUBLICATIONS

- 15465 Civilian casualty, social welfare and refugee problems in South Vietnam, hearings before Subcommittee to Investigate Problems Connected with Refugees and Escapees, 91st Congress, 1st session.
pt. 1. June 24 and 25, 1969. 1969. iii+127 p. il. † ● Item 1042
L.C. card 75-603992 Y 4.J 89/2 : V 67/2/969/pt.1
- 15466 Clement F. Haynsworth, jr., hearings, 91st Congress, 1st session on nomination of Clement F. Haynsworth, jr., of South Carolina, to be Associate Justice of Supreme Court of United States, Sept. 16-26, 1969. 1969. iv+762 p. † ● Item 1042
L.C. card 70-604097 Y 4.J 89/2 : H 33
- 15467 Communist threat to United States through Caribbean, hearings before Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws, 90th Congress, 2d session.
L.C. card 59-61823 Y 4.J 89/2 : C 73/27/pt.19
pt. 19. Violence in Puerto Rico, Nov. 27, 1969. iii+1305-1422+x p. il. † ● Item 1042
- 15468 Governmental intervention in market mechanism, hearings before Subcommittee on Antitrust and Monopoly, 91st Congress, 1st session, S Res. 40.
pt. 1. Petroleum industry, economists' views, Mar. 11-Apr. 2, 1969. 1969. v+604 p. il. ● Paper, \$2.50. ● Item 1042
L.C. card 78-604005 Y 4.J 89/2 : M 34/3/pt.1
- 15469 Standards for granting of Federal charters to nonprofit corporations, 91st Congress, 1st session. 1969. ii+1 p. (Committee print.) †
L.C. card 72-603359 Y 4.J 89/2 : F 31/11
- Labor and Public Welfare Committee, Senate*
Washington, DC 20510
- 15470 Coal mine health and safety, hearings before Subcommittee on Labor, 91st Congress, 1st session, on S. 355 and other bills.
pt. 5. Appendix. 1969. v+1537-1786 p. † Item 1043
L.C. card 70-601935 Y 4.L 11/2 : C 63/2/pt.5
- 15471 Community mental health centers amendments of 1969, hearings before Subcommittee on Health, 91st Congress, 1st session, on S. 2523, July 28 and 30, 1969. 1969. iv+161 p. † ● Item 1043
L.C. card 74-604098 Y 4.L 11/2 : C 73/4
- 15472 Education and training for veterans, hearings before Subcommittee on Veterans' Affairs, 91st Congress, 1st session on S. 338 [and other bills].
† ● Item 1043
L.C. card 71-603888 Y 4.L 11/2 : V 64/26/pt. (nos.)
pt. 1. June 24-26, 1969. 1969. vi+254 p.
pt. 2. Aug. 8 and 12, 1969. 1969. v+255-459 p. il.
- 15473 Elementary and secondary education amendments of 1969, hearings before Subcommittee on Education, 91st Congress, 1st session, on S. 2218 [and] H.R. 514 and related bills.
L.C. card 70-604003 Y 4.L 11/2 : E1 2/2/969/pt.1
pt. 1. June 11-July 18, 1969. 1969. ix+671 p. il. 1 pl. † ● Item 1043
- 15474 Nomination, hearing, 91st Congress, 1st session on George S. Ives of Maryland to be member of National Mediation Board, Sept. 12, 1969. 1969. ii+7 p. † ● Item 1043
L.C. card 70-603999 Y 4.L 11/2 : N 72/5/969-15
- 15475 Nomination, hearing, 91st Congress, 1st session, on Neil P. Speirs of New York to be member of Railroad Retirement Board, Sept. 12, 1969. 1969. ii+10 p. † ● Item 1043
L.C. card 77-603998 Y 4.L 11/2 : N 72/5/969-14
- 15476 Veterans hospital and medical care, hearing before Subcommittee on Veterans Affairs, 91st Congress, 1st session, on S. 345 [and other bills], July 17, 1969. 1969. iv+179 p. il. † ● Item 1043
L.C. card 73-603883 Y 4.L 11/2 : V 64/27

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Nutrition and Human Needs, Select Committee on, Senate

Washington, DC 20510

NOTE.—The Select Committee on Nutrition and Human Needs was established as a select committee of the Senate by S. Res. 281 of the 90th Congress, 2d session, which was considered, amended, and agreed to July 30, 1968.

- 15477 Food gap, poverty and malnutrition in United States, interim report together with supplemental, additional, and individual views, Aug. 1969. 1969. v+48 p. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 74-603354 Y 4.N 95: F 73
- 15478 Nutrition and human needs, hearings, 90th Congress, 2d session, and 91st Congress, 1st session.
pt. 12. Welfare reform and food stamps, Sept. 15, 1969. iii+3755-3886 p.
* Paper, 60c. ● Item 1009
L.C. card 76-600776 Y 4.N 95: N 95/pt.12

CONSUMER AND MARKETING SERVICE, Agriculture Dept.

Washington, DC 20250

- 15479 Cottonseed quality, crop of 1968. Oct. 1969, cover title, 32 p. il. 4° ([Market News Section], Cotton Division.) [Contents on p. 2 of cover.] † Consumer and Marketing Service, Market News Section, Cotton Division, P.O. Box 17723, Memphis, TN 38117
L.C. card 79-602586 A 88.11/15: 968
- 15480 Institutional meat purchase specifications for cured, dried, and smoked beef products, series 600; approved by USDA, effective Nov. 1969. [1969.] [1]+ii+2 p. 4° (Livestock Division.) [Issued with perforations.]
* Paper, 10c. ● Item 24-N A 88.17/4: B 39/2/969
- 15481 Plants under USDA continuous inspection, processed fruits and vegetables and related products. July 1969. [2]+33 p. 4° (Fruit and Vegetable Division, Processed Products Standardization and Inspection Branch.) †
A 88.43/2: 969
- 15482 Prosecutions and seizures under Federal seed act, July 1, 1967-June 30, 1968. Oct. 1968. 12 p. 4° (Grain Division Seed Branch, Agricultural Research Center, Beltsville, Md.) ‡
A 88.30/7: 967-68

Service and regulatory announcement SRA-C&MS (series).

- 15483 177. Official grain standards of United States for soybeans, [revised pages], effective Sept. 1, 1955. [Revised Sept. 1969.] [1969.] [4] p. 12° [Issued in looseleaf form.] † ● Item 111 A 88.6/3: 177/6/rev. pages 8.1-8.4

COOPERATIVE STATE RESEARCH SERVICE, Agriculture Dept.

Washington, DC 20250

- 15484 Forestry research progress in 1968, McIntire-Stennis Cooperative Forestry Research Program. [1969.] cover title, ii+110 p. il. 4° † Division of Information, Office of Management Services, Department of Agriculture, Washington, DC 20250.
L.C. card 79-600234 A 94.2: F 76/968

COPYRIGHT OFFICE, Library of Congress

Washington, DC 20540

Catalog of copyright entries, 3d series, v. 21.

- 15485 pt. 5. Music, no. 2, July-Dec. 1967, [sec. 1], Renewal registrations, addenda. [1969.] 3 p. 4° † ● Item 795 L.C. 3.6/5: v.21/pt.5/no.2/add.

NOTE.—Part 5 also sold separately on subscription. * Paper, \$15.00; \$3.75 additional for foreign mailing; single copy, \$7.50.

Catalog of copyright entries, 3d series, v. 22. * Paper, \$50.00 a yr. (including semiannual issues for pts. 1-13; \$12.50 additional for foreign mailing.

- 15486 pt. 3-4. Dramas and works prepared for oral delivery no. 2; July-Dec. 1968, 1969. ix+93-177 p. 4° ● Item 794
L.C. card 6-35347

NOTE.—Parts 3-4 sold separately on subscription. * Paper, \$5.00. \$1.25 additional for foreign mailing; single copy, \$2.50.

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 33

GOVERNMENT PUBLICATIONS

Catalog of copyright entries 3d series, v. 22—Continued

- 15487 pt. 5. Music, current and renewal registrations, no. 1, sec. 1, Jan.—June 1968.
1969. ix+891 p. 4° ● Item 795
L.C. card 6-35347
NOTE.—Part 5 also sold separately on subscription. * Paper, \$15.00; \$3.75 additional for foreign mailing; single copy, \$7.50.
- 15488 pt. 11B. Commercial prints and labels, no. 2; July—Dec. 1968. 1969. ix+59-103 p. 4° ● Item 799
L.C. card 6-35347
NOTE.—Part 11B also sold separately on subscription. * Paper, \$5.00 a yr., \$1.25 additional for foreign mailing; single copy, \$2.50.
- Circular.
- 15489 20. Fair use of copyrighted works. 1969. 1 p. 4° † ● Item 802-A
LC 3.4/2: 20/2

CUSTOMS BUREAU, Treasury Dept.

Washington, DC 20226

- 15490 Exporting to United States. [1969.] [5]+96 p. il. 4° (Office of Information and Publications.) * Paper, \$1.00. ● Item 950-A
L.C. card 63-61615 T 17.5/2: Ex 7/969

DEFENSE COMMUNICATIONS AGENCY, Defense Dept

Arlington, VA 22204

DCA circular.

- 15491 330-175-1. Standards, defense communications system (DCS) engineering-installation standards manual, Change 8. May 21, 1969. vii+[66] p. il. 1 pl. 4° [Includes list of effective pages. Issued in looseleaf form.] * Paper, \$1.00. D 5.104: 330-175-1/ch.8

DEFENSE DEPARTMENT

Washington, DC 20301

- 15492 Annual report of Secretary of Defense on reserve forces, fiscal year 1968. [Jan. 27, 1969.] cover title, [190] p. il. 4° ‡
L.C. card 58-61471 D 1.1/3: 968
- Defense Supply Agency manual DSAM (series). [Issued in looseleaf form.] ● Item 314-A D 7.6/8: (nos.)
- 15493 4145.2. Preservation, packaging and packing of military supplies and equipment: v. 2. Packing, Change 1. Aug. 20, 1969. [154] p. il. 4° [(Army Dept.) TM-29-230-2; [Air Force Dept.] AFP 71-4, Vol. 2, C 1.) * Paper, \$1.50.
- 15494 4160.21-M. Defense disposal manual, Change 16. [Sept. 1, 1969.] [30] p. 4° * Paper, 30c.
- 15495 DOD and NASA guide, incentive contracting guide. Oct. 1969. cover title, ix+254 p. il. 4° (NASA NHB 5104.3A; Army FM 38-34; Navy NAVMAT P-4283; Air Force AFP 70-1-5; [Defense Supply Agency] DSAH 7800.1.) [Prepared in cooperation with National Aeronautics and Space Administration.] * Paper, \$2.00. ● Item 314-A D 7.6/4: In 2/969
- 15496 Federal item identification guides: Abrasives. Sept. 15, 1969. cover title, [123] p. il. 4° (FIIG A069; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.25. ● Item 314-A D 7.6/4: Ab 8
- 15497 — Bearing, plain. Sept. 19, 1969. cover title, [132] p. il. 4° (FIIG A045; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.25. ● Item 314-A D 7.6/4: B 38
- 15498 — Boxes and crates, Mar. 28, 1969, Change 1. Aug. 8, 1969. [12] p. 4° (FIIG A066 change 1; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A D 7.6/4: B 69/ch.1

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

†Official Use. Not Available

- 15499 — Brackets. Sept. 19, 1969. cover title, [115] p. il. 4° (FIIG A042; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.25. ● Item 314-A
D 7.6/4: B 72
- 15500 — Caps and plugs. Sept. 19, 1969. cover title, [82] p. il. 4° (FIIG A208; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.00. ● Item 314-A
D 7.6/4: C 17/3
- 15501 — Coats and coat-like garments. Sept. 5, 1969. cover title, [80] p. il. 4° (FIIG A215; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.00. ● Item 314-A
D 7.6/4: C 63
- 15502 — Contact sets. Sept. 26, 1969. cover title, [10] p. 4° (INTERIM FIIG T011; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 25c. ● Item 314-A
D 7.6/4: 76/4
- 15503 — Covers and doors, access, Change 1; Aug. 8, 1969. [1969.] [12] p. 4° (FIIG A057; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A
D 7.6/4: C 83/ch.1
- 15504 — Holders, retainers, and shields for electrical and electronic components. Sept. 19, 1969. cover title, [82] p. il. 4° (FIIG A062; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] * Paper, \$1.00. ● Item 314-A
D 7.6/4: H 71
- 15505 — Hose, tubing, and hose and tubing assemblies, Apr. 5, 1968, Change 1. Aug. 8, 1969. [20] p. il. 4° (FIIG A081 change 1; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 20c. ● Item 314-A
D 7.6/4: H 79/3/ch.1
- 15506 — Knobs, dials, and pointers, June 9, 1967, Change 1. Aug. 15, 1969. [66] p. il. 4° (FIIG A041; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) * Paper, 60c. ● Item 314-A
D 7.6/4: K 75/ch.1
- 15507 — Lampholders. Sept. 19, 1969. cover title, [68] p. il. 4° (FIIG A094; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 55c. ● Item 314-A
D 7.6/4: L 19/2
- 15508 — Lift trucks, fork, platform and pallet, Aug. 1, 1969, Change 1. Oct. 3, 1969. [10] p. 4° (FIIG A085 change 1; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A
D 7.6/4: L 62/2/ch.1
- 15509 — Microphones and microphone elements. Sept. 18, 1969. cover title, [48] p. il. 4° (FIIG A064; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 60c. ● Item 314-A
D 7.6/4: M 58
- 15510 — Nails, staples, and tacks, Sept. 8, 1967, Change 1. Aug. 22, 1969. [13] p. 4° (FIIG A043 change 1; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A
D 7.6/4: N 14/ch.1
- 15511 — Pipe and tube metallic, Apr. 14, 1967, Change 2. Aug. 1, 1969. [12] p. 4° (FIIG A004 change 2; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A
D 7.6/4: P 66/ch.2
- 15512 — Resistor, thermal. Sept. 19, 1969. cover title, [52] p. il. 4° (FIIG A086; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 65c. ● Item 314-A
D 7.6/4: R 31/3

GOVERNMENT PUBLICATIONS

- 15513 — Rivets, rivet caps, and collars, May 26, 1967, Change 2. Aug. 8, 1969. [19] p. il. 4° (FIIG A040 change 2; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 20c. ● Item 314-A D 7.6/4: R 52/ch.2
- 15514 — Rivets, rivet caps, and collars, May 26, 1967, Change 3. Sept. 19, 1969. [12] p. il. 4° (FIIG A040 change 3; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A D 7.6/4: R 52/ch.3
- 15515 — Shaft collars and hub clamps. Sept. 5, 1969. cover title, [53] p. il. 4° (FIIG A231; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 70c. ● Item 314-A D 7.6/4: Sh 1
- 15516 — Special valves. Sept. 19, 1969. cover title, [99] p. il. 4° (FIIG A071; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.00. ● Item 314-A D 7.6/4: V 24/4
- 15517 — Structural shapes, nonmetallic. [Sept. 19, 1969.] cover title, [163] p. il. 4° (FIIG A145; Defense Supply Agency, Defense Logistics Services Center.) [Issued with perforations.] * Paper, \$1.50. ● Item 314-A D 7.6/4: St 8
- 15518 — [Stuffing tubes and components, June 21, 1968]; errata, Mar. 21, 1969. [1969.] [1] p. 4° (Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] † ● Item 314-A D 7.6/4: St 9/errata
- 15519 — Switch, nonrotary. Sept. 19, 1969. cover title, [160] p. il. 4° (FIIG A053; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] * Paper, \$1.50. ● Item 314-A D 7.6/4: Sw 6/2
- 15520 — Switch, rotary. Sept. 26, 1969. cover title, [99] p. il. 4° (FIIG A052; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.00. ● Item 314-A D 7.6/4: Sw 6
- 15521 — Terminal boards, June 2, 1967, Change 2. Aug. 22, 1969. [14] p. il. 4° (FIIG A011 change 2; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A D 7.6/4: T 27/ch.2
- 15522 — Valves, regulating. Aug. 22, 1969. cover title, xi+[71] p. il. 4° (FIIG A211; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, \$1.00. ● Item 314-A D 7.6/4: V 24/3
- 15523 Federal supply catalog: Consolidated master cross reference list, C-RL-1-CB3, Change bulletin 3; [published by Defense Logistics Services Center]. Oct. 1, 1969. 6v., cover titles, [xxx]+2212 p. 4° [Issued with perforations.] * Paper, \$200.00 a yr. (including basic list and supplementary material); \$25.00 additional for foreign mailing. ● Item 314-L D 7.20: 969/ch.3/v.1-6
- 15524 High School News Service report. [Monthly during school year.] † ● Item 304-G D 1.41: (v.nos.& nos.)
v. 13, no. 1— Sept. 1969—
- Joint travel regulations.
- 15525 v. 2. Civilian personnel. [1969.] [291] p. 4° [Reprint including Change 47, June 1969. Issued in looseleaf form.] * Paper, \$11.00 (including regulations and supplementary material for an indefinite period); \$2.75 additional for foreign mailing. ● Item 306-C D 1.6/5: 965/rep.
- 15526 Manual for courts-martial United States, 1969. Revised edition. [1969.] [700] p. 4° [Effective Aug. 1, 1969. Issued in looseleaf form.] * Paper, \$5.75. ● Item 349
L.C. card 74-601865 D 1.15: 969

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Military standard MIL-STD (series). [Issued with perforations.] ● Item 314-J D 7.10:(nos.)

- 15527 882. System safety program for systems and associated subsystems and equipment, requirements for. July 15, 1969. [1]+III+18 p. 4° (FSC MISC.) [Supersedes MIL-S-38130A, June 6, 1966.] ‡
- 15528 1220. Miscellaneous alcohols and amines, technical grade. Nov. 12, 1968. VIII+36 p. 4° (FSC 6810.) ‡
- 15529 1346. Relays, selection and application. June 27, 1969. VII+156 p. II. 4° (FSC 5945.) ‡
- 15530 1483. Sanitary standards for fish plants. Aug. 8, 1969. V+17 p. 4° (FSC 8905.) ‡
- 15531 MILSTRIP, Military assistance program address directory, supp. 2, Nov. 1, 1968. Change 6. Sept. 1, 1969. 2+[62] p. 4° (DOD 4140.17-M; Defense Supply Agency.) [Issued in looseleaf form.] * Paper, 60c. ● Item 314-A D 7.6/4: M 59/supp.2/rev.-2/ch.6

Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, N.J.: PLASTEC report.

- 15532 5C. Directory in plastics, knowledgeable Government personnel (revised); by Norman E. Beach. Apr. 1969. IV+126+[2] p. 4° [Prepared for Office of Director of Defense Research and Engineering. Issued with perforations. Supersedes PLASTEC report 5B, Sept. 1966.] * Paper, \$6.00. D 4.11: 5C

ECONOMIC DEVELOPMENT ADMINISTRATION, Commerce Dept. Washington, DC 20230

- 15533 Economic development districts and funded redevelopment areas, Mar. 31, 1969 [map]. Scale 300 m.=3.1 in. [1969.] 22x34 in. ‡ C 46.17: Ec 7/969
- Insets:
Alaska
Guam
Hawaii
Puerto Rico
Tutuila

- 15534 EDA economic development districts, job-creating program. [Sept. 1969.] 8 p. narrow 8° ‡ ● Item 130-D C 46.2: Ec 7/2/969-2

- 15535 Guide for area overall economic development programs. Revised Oct. 1969. [1969.] [3]+24 p. * Paper, 35c. ● Item 130-C C 46.8: Ec 7/969

ECONOMIC OPPORTUNITY OFFICE, Executive Office of the President, Washington, DC 20506

- 15536 CAP mission guide, participation of the poor in community decision-making process [with list of references]. Aug. 1969. III+39 p. 4° (OEC guidance 6005-1; Community Action Program.) [Issued with perforations.] ‡ ● Item 857-H-2
L.C. card 70-604106 PrEx 10.8: P 78

Community profiles. (Information Center.) ‡

- | | | |
|-------|---|---------------------|
| 15537 | Arkansas County, Ark. [1969.] cover title, 48 p. 4° | PrEx 10.9/5: Ar 4 k |
| 15538 | Ashley County, Ark. II[1969.] cover title, 47 p. 4° | PrEx 10.9/5: As 3 |
| 15539 | Baxter County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: B 33 |
| 15540 | Benton County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: B 44 |
| 15541 | Boone County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: B 64 |
| 15542 | Bradley County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: B 72 |
| 15543 | Calhoun County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 12 |
| 15544 | Carroll County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 23 |
| 15545 | Chicot County, Ark. [1969.] cover title, 48 p. 4° | PrEx 10.9/5: C 43 |
| 15546 | Clark County, Ark. [1969.] cover title, 48 p. 4° | PrEx 10.9/5: C 54 |
| 15547 | Clay County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 57 |
| 15548 | Cleburne County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 58 |
| 15549 | Cleveland County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 59 |
| 15550 | Columbia County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 72 |
| 15551 | Conway County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 76 |
| 15552 | Craighead County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 84 |
| 15553 | Crawford County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 85 |
| 15554 | Crittenden County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 86 |
| 15555 | Cross County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: C 88 |
| 15556 | Dallas County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: D 16 |
| 15557 | Desha County, Ark. [1969.] cover title, 48 p. 4° | PrEx 10.9/5: D 45 |
| 15558 | Drew County, Ark. [1969.] cover title, 47 p. 4° | PrEx 10.9/5: D 82 |
| 15559 | Faulkner County, Ark. [1969.] cover title, 48 p. 4° | PrEx 10.9/5: F 27 |

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Community profiles (Information Center)—Continued

15560	Franklin County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: F 85
15561	Flinton County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: F 95
15562	Garland County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: G 18
15563	Grant County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: G 76
15564	Greene County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: G 83
15565	Hempstead County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: H 37
15566	Hot Spring County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: H 79
15567	Howard County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: H 83
15568	Independence County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: In 2
15569	Jackson County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: J 13
15570	Jefferson County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: J 35
15571	Johnson County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: J 63
15572	Lafayette County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 13
15573	Lawrence County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 43
15574	Lee County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 51
15575	Lincoln County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 63
15576	Little River County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 72r
15577	Logan County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 82
15578	Lonoke County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: L 86
15579	Madison County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: M 26
15580	Marion County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: M 33
15581	Miller County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: M 61
15582	Mississippi County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: M 69i
15583	Monroe County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: M 75
15584	Montgomery County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: M 76
15585	Nevada County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: N 41
15586	New Castle County, Del. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: N 42c
15587	Newton County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: N 48
15588	Ouachita County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: Ou 1
15589	Perry County, Ark. [1969.] cover title, 46 p. 4°	PrEx 10.9/5: P 42
15590	Phillips County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: P 54
15591	Pike County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: P 63
15592	Poinsett County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: P 75
15593	Polk County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: P 75/2
15594	Pope County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: P 81
15595	Prairie County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: P 83
15596	Pulaski County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: P 96
15597	Randolph County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: R 15
15598	St. Francis County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Sa 2 f
15599	Salline County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Sa 3
15600	Scott County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Sco 3
15601	Searcy County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Se 1
15602	Sebastian County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: Se 2
15603	Sevier County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Se 8
15604	Sharp County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Sh 2
15605	Stone County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: St 7
15606	Sussex County, Del. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Su 8
15607	Union County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: Un 3
15608	Van Buren County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: V 27
15609	Washington County, Ark. [1969.] cover title, 48 p. 4°	PrEx 10.9/5: W 27
15610	White County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: W 58
15611	Woodruff County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: W 86
15612	Yell County, Ark. [1969.] cover title, 47 p. 4°	PrEx 10.9/5: Y 3

15613 Federal outlays in cities, report of Federal Government's impact by State and county, fiscal year 1968. [1969.] [Includes marginal index tabs on blank cardboard showing titles] ‡

Kentucky, v. 2. [1] + v + 15 + 46 p. 4°

L.C. card 77-4071

PrEx 10.24: K 41/968/v.2

15614 Mississippi, v. 1. [1] + v + 421 p. 4°

L.C. card 78-4074

PrEx 10.24: M 69/1/968/v.1

15615 Federal outlays, report of Federal Government's impact by State and county, fiscal year 1968. [1969.] [Includes marginal index tabs on blank cardboard showing titles.] ‡

PrEx 10.23: 6130-5

Nebraska, v. 1. [481] p. 4°

L.C. card 79-4148

PrEx 10.24: N 27/968/v.1

OEO pamphlet.

15616 6130-5. Planning your pregnancy. [1969.] [15] p. ill. oblong 32° ([Health Services Office, Community Action Program.]) ‡ ● Item 857-H-17

ECONOMIC RESEARCH SERVICE, Agriculture Dept. Washington, DC 20250

Agricultural economic reports. ● Item 42-C

A 93.28:(nos.)

15617 167. Rural Indian Americans in poverty [with bibliography; by Helen W. Johnson]. [Sept. 1969.] [2] + ii + 27 p. ill. 4° * Paper, 25c.
L.C. card 71-604022

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 15618 169. Potential mechanization in flue-cured tobacco industry, with emphasis on human resource adjustment; [by Task Group]. [Sept. 1969.] cover title, vi+74 p. il. 4° ([Agricultural Stabilization and Conservation Service.]) [Errata, 1 p., issued also.] * Paper, 65c.
L.C. card 71-604231

Costs and returns FCR (series). ([Farm Production Economics Division.])
† A 93.9/11: (nos.)

- 15619 64. Commercial egg-producing farms, New Jersey, 1968; [by Wylie D. Goodsell, Robert G. Latimer, and Daphene E. Tippet]. July 1969. [2]+5 p. il. 4°
15620 66. Commercial cotton farms, Mississippi Delta, 1968; by Albert Evans and Dorothy Nolan]. July 1969. [2]+6 p. il. 4°
15621 67. Commercial broiler farms, Georgia, 1968; [by Wylie D. Goodsell, Owen K. Shugars, and Daphene E. Tippet]. July 1969. [2]+4 p. il. 4°

ERS (series).

- 15622 427. Flaxseed production and use, past trends and future prospects [with bibliographies; by Clarence A. Moore]. [Sept. 1969.] cover title, iii-x +41 p. il. 4° [Page 41 on p. 4 of cover.] † ● Item 42-1
L.C. card 76-603936 A 93.21: 427

ERS-foreign (series).

- 15623 267. 1969 agricultural data book for Far East and Oceania. [Sept. 1969.] cover title, vi+109 p. 4° [Situation and Outlook Section, Far East Branch, Foreign Regional Analysis Division.] † ● Item 76-G
L.C. card Agr 67-322 A 93.21/2: 267

Foreign agricultural economic report.

- 15624 54. Production and export of corn and rice in Brazil, prospects for 1970's [with list of literature cited]; by Richard G. Wheeler. [Sept. 1969.] viii+66 p. il. 4° (Foreign Development and Trade Division.) [Map on p. 2 of cover. Prepared on assignment with Agriculture Department technical assistance team to Brazil in cooperation with International Development Agency.] * Paper, 65c. ● Item 42-B
L.C. card 75-603838 A 93.27: 54

- 15625 Rice situation. Oct. 1969. 36 p. il. 4° (RS-14.) [Semiannual.] † ● Item 21-P
A 93.11/3: 14

- 15626 U.S. foreign agricultural trade by commodities, fiscal year 1969. Sept. 1969. [3]+42 p. 4° [Supplement to monthly Foreign agricultural trade of United States.] † ● Item 42-E
L.C. card 46-26632 A 93.17/8: 969

EDUCATION OFFICE, Health, Education, and Welfare Dept.

Washington, DC 20202

- 15627 Annual report, National Advisory Council on Vocational Education, vocational education amendments of 1968, Public law 90-576, July 15, 1969. [1969.] cover title, [3]+4 p. 4° † ● Item 462-B
FS 5.85: 969

- 15628 Building custodian (D.O.T. occupational code 382.884), suggested guide for training course. [1969.] v+25 p. 4° (OE-87038; Bureau of Adult, Vocational, and Library Programs, Manpower Development and Training Program.) * Paper, 35c. ● Item 460-A-87
FS 5.287: 87038

- 15629 Directory, Public elementary and secondary schools in large school districts with enrollment and instructional staff, by race, fall 1967; by Diane B. Gertler. [1969.] v+840 p. large 8° ([OE-20121]; National Center for Educational Statistics.) [Title on cover is: Elementary and secondary education directory, public schools in large districts with enrollment and staff, by race, fall 1967.] * Paper, \$7.25. ● Item 460
L.C. card 72-604076 FS 5.220: 20121

- 15630 Education in action. remarks by James E. Allen, jr., Assistant Secretary for Education and Commissioner of Education, at National Conference on Citizenship annual dinner, Washington, D.C., Sept. 17, 1969. [1969.] 11 leaves, 4° †
FS 5.8: A1 53/8

- 15631 Financial statistics of institutions of higher education: Property, 1966-67; by Paul F. Mertins. [1969.] viii+132 p. il. 4° (OE-52012-67; Higher Education Surveys Branch, National Center for Educational Statistics.) [Highlights on p. 2 of cover.] * Paper, \$1.25. ● Item 460-A-52
FS 5.252: 52012-67

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15632 Follow Through's nutrition program, by David L. Williams, jr., Follow Through project officer. [1969.] 8 p. 4° [Address presented at briefing session for Panel on Large-Scale Meal Delivery Systems for White House Conference on Food Nutrition, and Health, Sept. 24, 1969, Washington, D.C.] ● Item 461 (Rev. 1965) † FS 5.2: N 95/4
- 15633 Institutions of higher education, index by State and congressional district; by Leah W. Ramsey. July 1969. v+45 p. 4° (OE-50060; National Center for Educational Statistics.) † ● Item 460-A-50 L.C. card 70-603893 FS 5.250: 50060
- 15634 Maintenance man, building (D.O.T. occupational code 899.381), suggested guide for training course [with bibliography]. [1969.] v+26 p. il. 4° (OE-S7043; Bureau of Adult, Vocational, and Library Programs, Manpower Development and Training Program.) [References interspersed.] * Paper, 35c. ● Item 460-A-87 FS 5.287: 87043
- 15635 Making contemporary our colleges and universities, address by James E. Allen, jr., Assistant Secretary for Education and U.S. Commissioner of Education, before Presidents to Presidents Conference, sponsored by Association of Student Governments, Washington, D.C., Sept. 20, 1969. 1969. 8 leaves, 4° † FS 5.8: A1 53/9
- 15636 More education, more opportunity, college degree, training for job. Office of Education sponsors programs that can assist you: [June 1969.] [4] p. 4°, folded into 8° size. ([OE-55053.]) † ● Item 460-A-55 FS 5.255: 55053-2
- 15637 National program of educational laboratories; by Francis S. Chase. [1969.] iii+105 p. 4° ([OE-12045]; Bureau of Research.) [Independent appraisal of 20 educational laboratories and 9 university research and development centers conducted under contract OEC-3-7-001536-1536.] † ● Item 460-A-12 L.C. card 71-604101 FS 5.212: 12045
- 15638 Post secondary distributive education, suggested guide for administrators and teachers [with bibliographies]; [prepared by Harland E. Samson]. [1969.] vi+58 p. il. 4° (OE-S2017; Bureau of Adult, Vocational, and Library Programs.) * Paper, 60c. ● Item 460-A-82 FS 5.282: 82017 L.C. card 75-604110
- 15639 Preparation of professional personnel in education of handicapped children, summer 1970 academic year 1970-71. Aug. 1969. ([Bureau of Education for the Handicapped.]) [Manual for use by colleges and universities and State educational agencies in applying for and administering special projects grants, authorized by Public law 85-926, as amended.] † ● Item 461-A-(Rev. 1965) L.C. card HEW 66-173
 pt. 2. Undergraduate traineeships, graduate fellowships, summer traineeships, special study institutes. [6] +20 p. 4°
 pt. 3. Special projects, P.L. 85-926, as amended. [5] +17 p. 4°
 FS 5.6/2: H 19/2/970-71/pt.2, 3
- 15640 Program of support for unsolicited basic research in education, July 1969-June 1970. [1969.] [3] p. narrow 8° (Bureau of Research.) † FS 5.2: R 31/5
- 15641 Right to read, target for the 70's, address by James E. Allen, jr., Assistant Secretary for Education and Commissioner of Education, before National Association of State Boards of Education, annual convention, Los Angeles, Calif., Sept. 23, 1969. [1969.] 10 leaves, 4° † FS 5.8: A1 53/7
- 15642 Some opportunities abroad for teachers, 1970-71, teaching, seminars under Fulbright-Hays act. [1969.] cover title, ii+[2]+23 p. oblong 12° ([OE-1404-71; Institute of International Studies.]) [Text on p. 2 of cover.] † ● Item 460-A-14 FS 5.214: 14047-71

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15643 Statistical report fiscal year 1968, report on 3rd year of title, I, Elementary and Secondary education act of 1965. [1969.] viii+56 p. 4° (OE-37021-68; [Division of Compensatory Education, Bureau of Elementary and Secondary Education.]) [Text on p. 2 of cover.] † ● Item 460-A-37 L.C. card HEW 68-116 FS 5.237: 37021-68
- 15644 Vocational & technical education, annual report, fiscal year 1967. [May 1969.] iv+[2]+175 p. il. 4° (OE-80008-67.) * Paper, \$1.50. ● Item 460-A-80 FS 5.280: 80008-67

**EMPLOYEES' COMPENSATION BUREAU, Labor Dept.
Washington, DC 20210**

Federal work injury facts.

- 15645 v. 8, no. 3. Number, duration and direct cost factors of work injuries to civilian Federal employees during calendar year 1968 as reported under Federal employees' compensation act: [compiled by Statistical Division]. Sept. 1969. [1]+14+[1] p. oblong 8° † ● Item 750-C L.C. card L 64-27 L 26.8/2: 8/3

ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Orders or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, DC 20310, Attention Publications Office.

Coastal Engineering Research Center: Miscellaneous paper.

- 15646 2-69. Radioisotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, July 1966-June 1968 [with bibliographies]; by David B. Duane and Charles W. Judge. May 1969. x+81+[116] p. il. 4° [Report prepared as part of contract AT (49-11)-2988 between Atomic Energy Commission and Coastal Engineering Research Center.] † (Limited distribution). U.S. Army Coastal Engineering Research Center, 5201 Little Falls Road NW., Washington, DC 20016 D 103.42/2: 2-69

— Reprint R (series).

- 15647 1-69. Effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa. [with list of references]; by D. W. Berg and D. B. Duane. Apr. 1968. cover title, 161-178 p. il. 4° [Includes Errata sheet, June 1969. Reprinted from Proceedings 11th Conference Great Lakes Research, 1968; International Association Great Lakes Research.] † D 103.42/4: 1-69

— Technical memorandum.

- 15648 28. Bed forms generated in laboratory under oscillatory flow, analytical and experimental study [with list of literature cited]; by M. R. Carstens, F. M. Neilson, H. D. Altinbilek. June 1969. [106] p. il. 4° ([Contract DA-149-055-CIVENG-65-1.]) [Abstract cards attached.] † (Limited distribution). U.S. Army Coastal Engineering Research Center, 5201 Little Falls Road NW, Washington, DC 20016 D 103.42: 28

Cold regions Research and Engineering Laboratory, Hanover, N.H.: Research report. † D 103.33/3: (nos.)

- 15649 206. Effects of thermal pollution on river ice conditions: pt. 2. Simplified method of calculation [with list of literature cited; by] S. Lawrence Dingman and Andrew Assur. Aug. 1969. cover title, iii+10+[1] p. il. 4° (DA task 1T061102B52A02.)
- 15650 266. Dielectric properties of clay suspensions in frequency range from 50 HZ to KHz [with list of literature cited; by] Pieter Hoekstra and Harold W. O'Brien. Aug. 1969. iii+17 p. il. 4° (DA task 1T061102B52A02.)

— Technical report.

- 15651 214. 50-man winter camp at Tuto, Greenland [with list of literature cited; by] Linwood E. Lufkin and Wayne Toblasson. Aug. 1969. iv+57 p. il. 4° (DA task 1T062112A13001.) † D 103.33: 214

Cold regions science and engineering monograph: [pt. 1. Environment]. (Cold Regions Research and Engineering Laboratory, Hanover, N.H.).

- 15652 1-A. Characteristics of cold regions [with selected bibliography; by] Robert W. Gerdell. Aug. 1969. vi+53 p. il. 4° (DA project 1T062112A130.) † L.C. card 62-62430 D 103.33/7: 1-A

- 15653 Coos Bay, Oreg., letter from chief of engineers, Army, submitting report; Sept. 3, 1969. 1969. xii+173 p. il. 1 pl. 4° Also issued as H. doc. 151, 91st Cong., 1st sess. † ● Item 334-A D 103.22: C 78/2

♣For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15654 Flood areas, Wolf River, Lake Poygan to Shawano, Wis., Outagamie, Waupaca, Winnebago and Shawano Counties, Wis., avoid this with proper planning. [1969.] [2] p. il. oblong f° folded into narrow 8° size. [Prepared from data in report Flood plain information, Wolf River from Lake Poygan to Shawano, Wis. Some illustrations are colored.] ‡
D 103.47/2: Ou 8
- 15655 Flood plain information: John Day and Canyon City, Oreg., Canyon Creek. May 1969. cover title, [3]+29 p. il. 7 pl. 1 tab. 4° [Prepared for cities of John Day and Canyon City and Grant County by Corps of Engineers, Army, Walla Walla, Washington District.] ‡ D 103.47: J 61
- 15656 — Westfield and Little Rivers, Westfield, Mass. June 1969. cover title, [4]+iii+64 p. il. 7 pl. 4° [Prepared for City of Westfield by Department of Army, New England Division, Corps of Engineers, Waltham, Mass.] ‡
D 103.47: W 52
- 15657 — Wolf River, Lake Poygan to Shawano, Wis. Outagamie, Waupaca, Winnebago and Shawano Counties, Wis. Aug. 1969. cover title, [6]+iv+48 p. il. 18 pl. 4° [Prepared for Northeastern Wisconsin Regional Planning Commission by Corps of Engineers, Army, Chicago District.] ‡
D 103.47: Ou 8
- 15658 Floods along Little Calumet & tributaries, Ill. and Ind. [1969.] 1 sheet (map on verso) il. oblong f° folded into narrow 8° size. (U.S. Army Engineer District, Chicago.) [Some illustrations are colored.] ‡
D 103.47/2: L 72 c
- 15659 Floods in Canyon City and John Day, Oreg. from Canyon Creek. May 1969. 1 sheet (map on verso) il. f° folded into narrow 8° size. [Prepared for Walla Walla District of Corps of Engineers for cities of John Day and Canyon City, and Grant County.] ‡
D 103.47/2: C 16
- 15660 Floods in Westfield, Mass., how to avoid damage. June 1969. [2] p. il. f° folded into narrow 8° size. [Prepared from data in report Flood plain information, Westfield and Little Rivers, Westfield, Mass.] ‡
D 103.47/2: W 52
- 15661 Frenchboro Harbor, Maine, letter from Chief of Engineers, Army, submitting report; Sept. 5, 1969. 1969. x+36 p. 2 pl. 4° [Also issued as S. doc. 32, 91st Cong., 1st sess.] ‡ ● Item 334-A D 103.22: F 88/2
- 15662 Port Sutton, Tampa Harbor, Fla., letter from chief of engineers, Army, submitting report; Sept. 3, 1969. 1969. xii+30 p. il. 1 pl. 4° [Also issued as H. Doc. 150, 91st Cong. 1st sess.] ‡ ● Item 334-A
D 103.22: P 83 s/2
- 15633 Streams in vicinity of Fairfield, Calif., letter from chief of engineers, Army, submitting report; Sept. 17, 1969. 1969. xv+123 p. il. 1 pl. 4° [Also issued as H. doc. 159, 91st Cong., 1st sess.] ‡ ● Item 334-A
D 103.22: F 16/3
- 15664 Water resources development. Aug. 1969. [2]+42 p. il. 4° (Technical Liaison Office.) ‡ ● Item 337
L.C. card 76-602703 D 103.2: W 29/3

Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (price upon application).

Waterways Experiment Station: Miscellaneous papers.

D 103.24/4: (letters-nos.)

- 15665 9C-6-11. Precision of quartz crystal and mercury differential thermometers in heat-of-hydration test [with list of literature cited]; by L. Pepper. Army-MRC Vicksburg, Miss. July 1969. ix+17+5+[2] p. il. 4° [Sponsored by Assistant Secretary of Army (R&D), Department of Army.]
- 15666 H-69-8. Characteristic pressure distribution in outlet works inlets [with list of literature cited]; by R. G. Cox, Y. H. Chu. Army-MRC, Vicksburg, Miss., Sept. 1969. [42] p. il. 4° [Sponsored by Office, Chief of Engineers, U.S. Army.]

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

— Technical reports.

D 103.24/2 : (nos.)

- 15667 6-780. Study of vibration of concrete : report 2, Mechanical impedance measurements [with list of literature cited]; by B. R. Sullivan, Army-MRC Vicksburg, Miss., Aug. 1969. [36] p. il. 4° [Sponsored by Office Chief of Engineers, Army.]
- 15668 H-69-11. Webbers Falls Lock and Dam Arkansas River navigation project, hydraulic model investigation; by J. J. Franco [and] J. E. Glover, Army-MRC, Vicksburg, Miss. Aug. 1969. [54] p. il. 4° [Sponsored by U.S. Army Engineer District, Tulsa.]
- 15669 Welcome to Lake Mendocino, Calif., part of Russian River project, built and operated by Army Engineer District, San Francisco. [May 1969.] 1 sheet (map on verso) il. f°, folded into narrow 8° size as to number 5 p. ‡
D 103.2 : M 52

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION,
Commerce Dept, Washington, DC 20235

- 15670 Acoustic-gravity waves in atmosphere, final program, sponsored by Environmental Science Services Administration, and Advanced Research Projects Agency, Boulder, Colo., July 15-17, 1968. [1968.] cover title, i+70 p. 4° ‡
C 52.2 : AC 7/fin.prog.
- 15671 ESSA direct transmission system users guide [with bibliography]; prepared by National Environmental Satellite Center. 1969. x+148 p. il. 4° [Issued with perforations. Supersedes APT users guide (1965).] * Paper, \$2.25. ● Item 208-B-2
C 52.8 : T 68
- ESSA monograph.
- 15672 2. Mathematical geodesy; by Martin Hotine. 1969. xvi+416 p. il. 4° * Cloth, \$5.50 ● Item 208-B-3
L.C. card 73-602618
C 52.13 : 2
- ESSA technical memorandum. (Weather Bureau; Data Acquisition Division, Office of Meteorological Operations, Silver Spring, Md.)
- 15673 WBTM-DATAC-3. Requirements statements for selected data acquisition equipment [with lists of references; by] James Graytys and Paul L. Hexter. July 1969. v+86 p. il. 4° ‡
C 52.15/2 : WBTM-DATAC-3
- ESSA technical report. [ESSA Research Laboratories; Institute for Telecommunications Sciences, Boulder, Colo.] ● Item 208-B-7
C 52.15 : ERL- (nos.)
- 15674 ERL-122-ITS 86. Mutual impedance of loop antennas over finitely conducting [with list of references; by] J. Ralph Johler. July 1969. vi+110 p. il. 4° * Paper, \$1.00.
- 15675 ERL 125-ITS 88. Tropospheric pulse propagation [with list of references; by] L. E. Vogler. July 1969. ili+31 p. 4° * Paper, 40c.
- ESSA technical report. (ESSA Research Laboratories: Research Flight Facility, Miami, Fla.)
- 15676 ERL 126-RFF 1. ESSA Research Flight Facility, facilities for airborne atmospheric research [with list of references; by] Howard A. Fledman, Frank S. Cicirelli, William J. Freedman, Aug. 1969. viii+89 p. il. 4° * Paper, \$1.00. ● Item 208-B-7
C 52.15 : ERL 126-RFF 1

EQUAL EMPLOYMENT OPPORTUNITY COMMISSION
Washington, DC 20506

- 15677 Toward job equality for women. [1969.] cover title, 10 p. il. [Text on p. 2 of cover.] ‡ ● Item 1059-A-1
Y 3.Eq 2 : 2 W 84

FEDERAL AVIATION ADMINISTRATION, Transportation Dept.
Washington, DC 20553

- 15678 Acceptable methods, techniques, and practices, aircraft inspection and repair, change 6. May 1, 1969. [16] p. il. 4° (AC 43113-1.) [Issued in looseleaf form.] * Paper, \$3.00 including basic manual and changes for indefinite period; \$1.00 additional for foreign mailing. ● Item 431-F-7
TD 4.28/2 : 969/ch.6

♣For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15679 Air traffic patterns for IFR and VFR aviation, calendar year 1968; [by Theodore Dalbow]. [1969.] cover title, iv+161 p. 4° (Office of Management Systems, [Information and Statistics Division, Publication and Service Branch.]) [Pages 10-16 intentionally omitted.] † ● Item 431-C-1
L.C. card 78-601966 TD 4.19/2: 968
- 15680 Aircraft noise and sonic boom research and development, by I. H. Hoover, Director, Office of Noise Abatement, Federal Aviation Administration. [1969.] [18] leaves, il. 4° [Paper presented to 3d annual R & D report to industry, June 17, 1969.] ‡ TD 4.2: N 69/4
- 15681 Airport/airways legislation. [1969.] [1]+10 p. 4° ‡ TD 4.2: Ai 7/6
- 15682 Catalog of approved headquarters FAA recurring reports, June 1969. [July 31, 1969.] [186] p. 4° (Order 1340.3D.) [Issued in looseleaf form. Cancels Order 1340.3C, July 30, 1968.] ‡ ● Item 431-C-4
TD 4.8/2: 1340.3 D
- 15683 Economy approach lighting aids [with bibliography]; [effective] Mar. 7, 1967. [1969.] cover title, [33] p. il. 4° ([Advisory circular] AC 150/5340-14A.) [Issued in looseleaf form. Cancels AC 150/5340-14, June 30, 1965.] † TD 4.8: L 62/6
- Federal aviation regulations. [Issued in looseleaf form.] † ● Item 431-C-13 TD 4.6: (nos.)
- 15684 pt. 61.
Certification: Pilots and flight instructors, Change 30 [effective] Sept. 5, 1969. [1969.] [16] p. 4° [Incorporates amendment 61-43.]
- 15685 pt. 121.
Certification and operations: Air carriers and commercial operators of large aircraft, Change 34 [effective] Sept. 20, Sept. 5, Oct. 16, Oct. 17, 1969. [1969.] [38] p. 4° [Incorporates amendments 121-49, 121-50, 121-51, and 121-52.]
- 15686 pt. 123.
Certification and operations: Air travel clubs using large airplanes. Change 2 [effective] Sept. 5, 1969. [1969.] [9] p. 4° [Incorporates amendment 123-2.]
- 15687 141.
Pilot schools [effective] Oct. 25, 1969. [1969.] [12] p. 4° [Incorporates amendment 141-S.]
- 15688 Flight test guide: Commercial pilot, airplane; [prepared by Flight Standards Service]. Revised 1969. [1969.] cover title [2]+29 p. narrow 12° (Advisory circular AC 61.117-1c.) [Supersedes Flight test guide: Commercial pilot, airplane AC 61.117-1B, dated 1967, and all pilot tests in airplanes.] * Paper, 20c. ● Item 431-C-4 TD 4.8: P 64/2/969
- Handbooks. ● Item 431-C-4 TD 4.8/2: (nos.)
- 15689 4660.1. Real property, Change 3. [Aug. 7, 1969.] [153] p. il. 4° [Issued in looseleaf form. Cancels orders IM 4634.5, June 30, 1964, and 4840.2, Feb. 11, 1966.] †
- 15690 8430.6. Air carrier operations inspector's handbook [prepared by Operations Division]: Sept. 29, 1967. [1969.] cover title [396] p. il. 4° [Cancels FS P 8430.13. Consolidated reprint includes Changes 1-71, Aug. 1969. Issued with perforations.] † Manager of Headquarters Operations, Federal Aviation Administration, 800 Independence Ave. NW., Washington, DC 20590 (Price upon application).
- 15691 Labor requirements in Federal-aid airport program contracts. June 6, 1969. cover title [26] p. 4° ([Advisory circular] AC 150/5100-6.) [Issued with perforations. Cancels publication, Federal-aid airport program labor standards and enforcement procedures, dated Apr. 1962.] † Department of Transportation, Distribution Unit, TAD-484.3, Washington, DC 20590 ● Item 431-C-4 TD 4.8: Ai 7/15
- National Aviation Facilities Experimental Center, Atlantic City, N.J.: Report NA (series). TD 4.32: (nos.)
- 15692 69-9. Simulation test of Arcata, Calif., diamond runway centerline. Interim report; by Guy S. Brown [and] Richard L. Sulzer. Aug. 1969. vii+13 +6+[3] p. il. 4° (Project 430-301-05X.) [Prepared for Systems Research and Development Service.] † Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

- 15693 69-13. System shakedown tests (C20N) NAS en route stage A model 1, functional package A, flight data processing, final report; prepared by Gilbert P. Boschert. Aug. 1969. [52] p. 4° (Project 119-126-33X.) [Prepared for National Airspace System Program Office.] ♣ Paper, \$3.00
- 15694 69-33. Evaluation of United States Air Force portable airfield lighting system, final report; prepared by Robert F. Gates. Aug. 1969. viii+33+4+[4] p. il. 4° (Project 910-003-11x.) [Prepared for Air Force.] †
- 15695 Summary of airworthiness directives for large aircraft, supplement Apr. 1, 1969. [8] p. 4° (Federal aviation regulations, pt. 39, v. 2.) [Contains all revisions, cancellations, and new Airworthiness directives issued Jan.-Mar. 1969. Issued in looseleaf form.] * Paper, \$6.00 (including basic manual and quarterly supplements for an indefinite period); \$1.25 additional for foreign mailing. ● Item 431-A-15
TD 4.10/3: 969/supp.
- 15696 Summary of airworthiness directives for small aircraft [revised pages]. Apr. 1, 1969. [84] p. 4° (Federal aviation regulations pt. 39, v. 1, supplement.) [Issued in looseleaf form.] * Paper, \$6.00 (including basic manual and supplementary material for indefinite period); \$1.25 additional for foreign mailing. ● Item 431-A-15
TD 4.10/2: 967/rev.pages-6

FEDERAL COMMUNICATIONS COMMISSION

Washington, DC 20554

- 15697 Rules and regulations: v. 6, July 1969. [1969.] cover title, 68 p. 4° [Revision of Oct. 1966 issue and includes all amendments adopted by Commission through June 30, 1969. Includes pt. 95, Citizens radio service, pt. 97 Amateur radio service, pt. 99, Disaster communications service. Issued in looseleaf form.] * Paper, \$2.00 (including basic volume and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 287
L.C. card 60-61384 CC 1.6/6: 969
- 15698 Statistics of telephone carriers, reporting annually to Commission as at Dec. 31, 1968 and for year then ended. [1969.] 4 leaves narrow f° †
CC 1.14/2: 968

FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY

Washington, DC 20506

- 15699 Progress in scientific and technical communications, 1968 annual report. [1969.] viii+90 p. 4° (COSATI 69-5; Committee on Scientific and Technical Information.) [Includes list of COSATI publications.] †
● Item 1061-B
L.C. card 68-60748 Y 3.F 31/16: 2 C 73/3/968

FEDERAL CREDIT UNIONS BUREAU, Health, Education, and Welfare Dept, Washington, DC 20201

- 15700 Federal credit union, rules and regulations [title 45 of Code of Federal regulations, public welfare]. Aug. 1969. [2]+30 p. 4° (FCU-542.) [Issued with perforations. Supersedes previous issues.] † ● Item 527
FS 3.306: F 31/2/969

FEDERAL DEPOSIT INSURANCE CORPORATION

Washington, DC 20429

- 15701 Report to insured banks, June 30, 1969. [1969.] cover title, 12 p. il. 4° †
L.C. card 36-26878 Y 3.F 31/8: 17/969

FEDERAL HIGHWAY ADMINISTRATION, Transportation Dept. Washington, DC 20591

- 15702 Management career opportunities for administration majors, Department of Transportation, Federal Highway Administration. Sept. 1968. [8] p. il. narrow 8° †
TD 2.2: Ad 6/968

♣For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15703 Professional challenge and growth for accounting majors in Federal Highway Administration. Aug. 1969. [8] p. il. narrow 8° †
TD 2.2: Ac 2/969

FEDERAL HOME LOAN BANK BOARD Washington, DC 20552

- 15704 Brand new ball game, the 70's, [address] by Preston Martin, Chairman. Federal Home Loan Bank Board, before National League of Insured Savings Associations, 26th annual meeting, Boston, Mass., Oct. 13, 1969. [1969.] [1]+14+[1] p. il. 4° † FHL 1.23: M 36/5
- 15705 Member savings and loan associations of Federal Home Loan Bank System, combined financial statements, 1968. [June 1969.] cover title, 74 p. il. 4° [Text and map on p. 2 and 3 of cover.] † L.C. card 52-26280 FHL 1.12: 968
- 15706 Savings and home financing source book, 1968. [June 1969.] 55+[1] p. il. 12° ([Data Management Division.]) † L.C. card 53-63519 FHL 1.11: 968

FEDERAL HOUSING ADMINISTRATION, Housing and Urban Development Dept., Washington, DC 20411

- 15707 FHA regulations: [Home mortgage regulations, amendments to sec. 233, 235]. [1969.] [10] p. ([FHA 3000.]) [Includes Home regulations transmittal 66, July 18, 1969. Issued in looseleaf form.] † HH 2.6: M 84/7/964/trans.66
- 15708 Minimum property standards for multi-family housing, General revision M-14; Aug. 1969. [1969.] [7] p. 4° (FHA 2600.) [Issued in looseleaf form. Effective immediately.] † ● Item 593 HH 2.17/3: M 91/rev.M-14

Technical standards training guide.

- 15709 2. Kitchen planning guide, text and drawings [with bibliography]; by Donald L. Moore. [June 1969.] ill+24 p. il. 4° † ● Item 589-A L.C. card 73-604115 HH 2.6/7: 2

FEDERAL MARITIME COMMISSION Washington, DC 20573

- 15710 Approved conference, rate and interconference agreements of steamship lines in foreign commerce of United States. Reissue Jan. 1, 1969. [1969.] [232] p. [Correction sheet, 1 p. 12°, was issued also. Issued in looseleaf form.] * Paper, \$4.50 (including basic manual and supplementary material for an indefinite period); \$1.25 additional for foreign mailing. L.C. card 66-61310 FMC 1.11: 969
- 15711 Decisions of Federal Maritime Commission: v. 11, July 1967-June 1968. 1969. xv+[1]+572 p. * Cloth, \$3.75. ● Item 233-A L.C. card 42-49992 FMC 1.10: 11
- FMC SP (series). † FMC 1.9: (nos.)
- 15712 69-15. Remarks of James F. Fanseen, Acting Chairman, Federal Maritime Commission, before Congress of International Federation of Forwarding Agents Association (FIATA), New York, N.Y., Oct., 2, 1969. [1969.] 5 p. 4°
- 15713 69-16. Remarks of Jerome B. Blum, Special Assistant to Managing Director, Federal Maritime Commission before Chicago Chapter of Association of Interstate Commerce Commission Practitioners, Oct. 10, 1969. [1969.] 5 p. 4°
- 15714 69-18. Remarks by H. B. Mutter, Deputy Solicitor, Federal Maritime Commission, before National Customs Brokers and Forwarders Association of America, Inc., Sept. 30, 1969, New York, N.Y. [1969.] 6 p. 4°
- 15715 69-19. Remarks of Helen Dellich Bentley, Chairman, Federal Maritime Commission, before luncheon meeting of American Merchant Marine Conference, Savannah, Ga., Oct. 16, 1969. 1969. 6 p. 4°
- 15716 69-20. Remarks of Helen Dellich Bentley, Chairman, Federal Maritime Commission before luncheon meeting of National Press Club, Washington, D.C., Oct. 17, 1969. 1969. 10 p. 4°

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 15717 7th annual report of Federal Maritime Commission, fiscal year 1968. [1969.]
vi+79 p. il. * Paper, 45c. ● Item 233
L.C. card 63-60652 FMC 1.1: 968

FEDERAL POWER COMMISSION

Washington, DC 20426

- 15718 Evaluation report, water resources appraisal for hydroelectric licensing, Oneida Development, Bear River, Idaho, project 472, Logan Development, Logan River, Utah, project 486, owned by Utah Power and Light Company. 1968. xi+42 p. il. 4° (Bureau of Power.) ‡ FP 1.31: On 2

FPC-S (series).

- 15719 196. Sales of firm electric power for resale, 1965-1967 by private electric utilities by Federal projects; [prepared by Office of Accounting and Finance]. June 1969. v+30 p. il. 4° * Paper, 40c. ● Item 440
L.C. card 70-601639 FP 1.21: 196

- 15720 Major natural gas pipelines, as of June 30, 1969 [colored map]. Scale 1.8 in.=300 mi. 1969. 13 x 19 in. (FPC M-86.) * Paper, 15c.
L.C. card Map 55-498 FP 1.13: G 21/2/969

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial service. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$12.50 a year, \$4.25 additional for foreign mailing; single copy 25c.

- 15721 Arkansas. Aug. 1969. [2]+14 p. 4° [Supersedes issue of June 1968.] ● Item
437-A-3 FP 1.18: Ar 4k/969
15722 Kentucky. July 1969. [2]+16 p. 4° [Supersedes issue of Jan. 1968.] ● Item
437-A-15 FR 1.18: K 41/969
15723 New Jersey. Sept. 1969. [2]+11 p. 4° [Supersedes issues of Nov. 1967.] ● Item
437-A-28 FP 1.18: N 42j/969
15724 Tennessee. July 1969. [2]+11 p. 4° [Supersedes issue of Jan. 1968.] ● Item
437-A-40 FP 1.18: T 25/969

FEDERAL RAILROAD ADMINISTRATION, Transportation Dept.

Washington, DC 20591

Railroad accident investigation report.

- 15725 4147. Norfolk and Western Railway Company, Abingdon, Va., July 17, 1968. [1969.] [3]+17 p.+4 pl. 4° † TD 3.10: 4147

FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS

Washington, DC 20551

- 15726 Everybody's problem, movement of money, remarks of George W. Mitchell, Member, Board of Governors of Federal Reserve System at Annual International Conference of Financial Executives Institute, Chicago, Ill., Oct. 2, 1969. 1969. [1]+9 p. 4° † FR 1.23: M 69/54

- 15727 New frontier for monetarists, remarks by J. Dewey Daane, Member, Board of Governors of Federal Reserve System, before Northern New England School of Banking, Dartmouth College, Hanover, N.H., Sept. 8, 1969. [1969.] [1]+17 p. 4° † FR 1.23: D 11/18

- 15728 New look at monetary policy instruments, remarks of George W. Mitchell, Member, Board of Governors of Federal Reserve System at Conference of University Professors, Milwaukee, Wis., Sept. 10, 1969. 1969. 19 p. 4° † FR 1.23: M 69/53

Regulation (series). †

FR 1.6: (letters)

- 15729 G. Securities credit by persons other than banks, brokers, or dealers, amendment, effective Aug. 13, 1969. [1969.] 1 p. 4°

- 15730 J. Collection of checks and other items by Federal Reserve banks, amendment, effective Oct. 1, 1969. [1969.] 1 p.

- 15731 U. Credit by banks for purpose of purchasing or carrying margin stocks, amendment, effective Aug. 13, 1969. [1969.] 1 p. 4°

- 15732 Rules regarding delegation of authority, amendments, effective Sept. 4, 1969. [1969.] 1 p. † FR 1.8/2: Au 8/amdt.-3

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15733 Treasury and Federal reserve foreign exchange operations. [1969.] p. 697-718, 4° [Reprinted from Federal Reserve Bulletin, Sept. 1969.] †
FR 1.3/a: F 761/2/969-2
- 15734 United States monetary policy in 1969, assessment, paper presented by Andrew F. Brimmer, Member, Board of Governors of Federal Reserve System at 16th annual Banker's Forum, Georgetown University, Washington, D.C., Oct. 4, 1969. [1969.] [1]+22+[15] p. 4° †
FR 1.23: B 77/48

FEDERAL SUPPLY SERVICE, General Services Administration Washington, DC 20405

- 15735 Federal specifications. ● Item 563. GS2.8:
NOTE.—These specifications are completely covered by the index of Federal specifications and standards. Individual specifications are not listed in the Monthly Catalog.
Index of Federal specifications and standards, January 1, 1969, with cumulative supplements as issued (GS2.8/2:969) is sold by the Superintendent of Documents on a subscription basis at \$3.00 a yr.; 75c additional for foreign mailing.
Federal standards. Issued with perforations. ● Item 563
NOTE.—Federal standards may be purchased from the General Services Administration, Specifications Activity, Special Program Division, Building 197, Naval Weapons Plant, Washington, DC 20407
All checks and money orders should be made payable to the Treasurer of the United States. Single copies are available without charge at the nearest GSA regional office.
- 15736 269. Ash receivers, tobacco. June 25, 1969. 3 p. 4° (FSC 9920.) [AA-A-700 and AA-A-710, issues, in effect.] † Paper, 10c. GS 2.8/3: 269
- 15737 Federal supply catalog: Stock catalog, identification list, pt. 2, FSG 65-99. Oct. 1969. cover title, xx+262 p. il. 4° [Issued with perforations. Text on p. 2-4 of cover.] * Paper, \$6.00 a yr. (including basic manual and cumulative National supplier change indexes); \$1.50 additional for foreign mailing. ● Item 565-B GS 2.10/6: pt.2/969

FEDERAL TRADE COMMISSION Washington, DC 20580

- 15738 Advisory opinion digests, 1-313, June 1, 1962-Dec. 31, 1968; [compiled by Richard B. McMahon]. [1969.] ix+310 p. ([R6-13-1.]) * Paper, \$2.25.
● Item 534-A FT 1.12/2: 1-313
L.C. card 77-604108
- 15739 Economic report on Food chain selling practices in District of Columbia and San Francisco, staff report. [1969.] cover title, x+47 p. il. (Report 6-15-3.) [Consists of Committee print, Government Operations Committee, House, 91st Congress, 1st session.] * Paper, 35c. ● Item 535
L.C. card 71-603372 FT 1.2: F 73/2

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION, Interior Dept, Washington, DC 20242

- 15740 Clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, Los Angeles, Calif., Feb. 25-26, 1969 [1969.] [1]+vii+223 p. il. 4° (Pacific Southwest Region, San Francisco Calif.) †
L.C. card 74-604063 I 67.2: Es 8/5/969
- 15741 Estuaries, cradles or graves, better water for America. [Sept. 1969.] [S] p. il. narrow 8° ([CWA-15.]) † I 67.2: Es 8/4
- 15742 Heat can hurt, better water for America; [prepared by Office of Public Information]. [Sept. 1969.] [S] p. il. narrow 8° ([CWA-14.]) †
I 67.2: H 35
- 15743 Pollution caused fish kills, 1968 [9th annual report]; [Prepared by Office of Public Information]. [1969.] cover title, 16 p. il. oblong 12° ([CWA-7 1969.]) [Text and another illustration on p. 2-4 of cover.] * Paper, 30c. ● Item 496-C I 67.9: 968

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

Robert A. Taft Water Research Center: Report TWRC-(series).

I 67.19:(nos.)

- 15744 3. Investigation of light-catalyzed chlorine oxidation for treatment of waste-water [with list of references]; by Alfred F. Meiners [and others]. Dec. 1968. v+121 p. il. 4° ([Advanced Waste Treatment Research Laboratory-3; Ohio Basin Region, Cincinnati, Ohio.]) [Report submitted in fulfillment of contract 14-12-72 by Midwest Research Institute.] † Office of Information, Ohio Basin Region, Federal Water Pollution Control Administration, 4676 Columbia Parkway, Cincinnati, OH 45226
- 15745 4. Ozone treatment of secondary effluents from waste-water treatment plants [with list of references]; by D. Th. A. Hulbers, R. McNabney, and A. Halfon. Apr. 9, 1969. viii+62 p. il. 4° ([Advanced Waste Treatment Research Laboratory-4; Ohio Basin Region, Cincinnati, Ohio.]) [Report submitted in fulfillment of contract 14-12-114 by Air Reduction Company, Inc.] † Office of Information, Ohio Basin Region, Federal Water Pollution Control Administration, 4676 Columbia Parkway, Cincinnati, OH 45226

FOREIGN AGRICULTURAL SERVICE, Agriculture Dept.
Washington, DC 20250

[Foreign Agricultural Service, miscellaneous] FAS-M (series). †

A 67.26:(nos.)

- 15746 209. U.S. soybean market in Republic of China (Taiwan); [by Calvin C. Spillsbury]. Aug. 1969. cover title, ii+20 p. il. 4° (Fats and Oils Division.) L.C. card 72-603718
- 15747 210. Canned deciduous fruit industry of South Africa; [by Richard B. Schroeter]. Sept. 1969. cover title, [2]+18 p. il. 4°
- 15748 211. Market prospects for U.S. horticultural products in Japan; [by William J. Higgins]. Sept. 1969. cover title, [2]+10 p. 4° L.C. card 78-604021

FOREST SERVICE, Agriculture Dept
Washington, DC 20250

- 15749 Annotated list of publications of Pacific Northwest Forest and Range Experiment Station, 1968. Portland, Oreg., 1969. cover title, 10 p. 4° † L.C. card 74-600809 A 13.66/15: P 96/968
- 15750 California Region, progress report, progress in 1968. [1969.] cover title, 20 p. il. 4° [Text on p. 2-3 of cover.] † A 13.1/2: 968
- 15751 Cooperative forest fire control, program financing, Federal, State and private funds, under sec. 2, Clarke-McNary Law, act of June 7, 1924 (43 Stat. 653), cooperative financing expenditures f.y. 1968, allotments f.y. 1969. [1969.] 1 p. oblong 8° (C-M 2; Division of Cooperative Forest Fire Control.) † A 13.2: F 51/49/968-69
- 15752 La Garita Wilderness, Rio Grande and Gunnison National Forests. n.d. [2] p. il. large 4° folded into narrow 8° size. ([Rocky Mountain Region.]) † A 13.13: L 13
- 15753 National forests in California. [n.d.] 20 p. il. [Some illustrations are colored. Text on p. 2 and 3 of cover.] † A 13.2: N 21/21/969
- 15754 National recreation area in Sawtooth County, concept. [1969.] cover title, [16] p. il. 4° [Text and another illustration on p. 2-3 of cover.] † A 13.2: Sa 9/3
- 15755 Penny pines progress report. [1969.] [4] p. il. (California Region.) † A 13.2: P 38/969

Research note NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa. † A 13.79: NE-(nos.)

- 15756 NE-89. Form recovery by understory sugar maple under uneven-aged management [with list of literature cited; by George R. Trimble, jr.]. 1968. 8 p. il.
- 15757 NE-90. Tree survival and growth on fescue-covered spoil banks; [by William T. Plass.] 1968. 4 p.
- 15758 NE-91. Vacuum pumping doubles maple sap yield on flat land [with list of literature cited; by Robert R. Morrow and Carter B. Gibbs]. 1969. 5 p. il.

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 49

GOVERNMENT PUBLICATIONS

Research note PNW-(series). (Pacific Northwest Forest and Range Experiment Station, Portland, Oreg.) † A 13.79: PNW-(nos.)

- 15759 PNW-104. Effect of graft type on 6-month scion survival of field grown Douglas-fir grafts; by Donald Copes. Apr. 1969. 5 p. il. 4°
- 15760 PNW-106. Some antecological characteristics of elk sedge; by G. O. Klock. July 1969. 5 p. il. 4°

Research paper FPL-(series). (Forest Products Laboratory, Madison, Wis.) † A 13.78: FPL-(nos.)

- 15761 FPL-104. Acoustical absorption properties of wood-base panel materials; [by W. D. Goodshall and James H. Davis]. May 1969. cover title, 8 p. il. 4° [Text on p. 2 of cover. Accompanied by abstract cards.]
- 15762 FPL-107. New method for appraising decay capabilities of micro-organisms from wood chip piles; by Wallace E. Eslyn. May 1969. cover title, 8 p. il. 4° [Text on p. 2 of cover. Accompanied by abstract cards.]
- 15763 FPL-108. Effect of tension wood on hard maple used for manufactured parts; [by David R. Schumann and Maxon Y. Pillow]. May 1969. cover title, 8 p. il. 4° [Text on p. 2 of cover. Accompanied by abstract cards.]
- 15764 FPL-110. Control of pulp chip deterioration with kraft green liquor [with list of literature cited; by Edward L. Springer and others]. May 1969. cover title, 4 p. 4° [Text on p. 2 of cover. Accompanied by abstract cards.]
- 15765 FPL-111. Evaluating Appalachian woods for highway posts; [by D. V. Doyle and T. L. Wilkinson]. July 1969. cover title, 20 p. il. 4° [Summary on p. 2 of cover; list of additional reading on p. 3 of cover. Accompanied by abstract cards.]

Research paper ITF-(series). (Institute of Tropical Forestry, Rio Piedras, P.R.)

- 15766 ITF-9. Trees of Jost Van Dyke (British Virgin Islands) [with list of literature cited]; by Elbert L. Little, jr. Aug. 1969. cover title, 12 p. il. 4° [Summary in Spanish on p. 2 of cover. Abstract cards inserted.] †
L.C. card 79-604024 A 13.78: ITF-9

Research paper NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) † A 13.78: NE-(nos.)

- 15767 NE-120. Rates of value increase for yellow birch in New England; by William B. Leak, Stanley M. Filip, Dale S. Solomon. 1968. cover title, 11 p. il. [Text on p. 2 of cover. Abstract cards inserted.]
- 15768 NE-121. Unit-load explosion in food industry, study showing relative importance of several materials-handling systems in shipping food products; by John J. Strobel and Walter B. Wallin. 1969. cover title, [1]+60 p. il. [Table of contents on p. 2 of cover. Abstract cards inserted.]
L.C. card 78-603982
- 15769 NE-122. Department of Defense market for wooden pallets, 1966; by John T. Lucas and Walter B. Wallin. 1969. [1]+19 p. il. [Abstract cards inserted.]
- 15770 NE-123. Use of soil fumigants to control spread of *Fomes annosus* [with list of literature cited]; by David R. Houston and Harold G. Eno. 1969. cover title, 23 p. il. [Text on p. 2 of cover. Abstract cards inserted.]
L.C. card 71-602296
- 15771 NE-124. Flooring costs, comparison of installation and maintenance costs for three types of residential flooring; by David G. Martens. 1968. cover title, 23 p. il. [Abstract cards inserted.]
- 15772 NE-125. Forest insect population dynamics, proceedings of Forest Insect Population Dynamics Workshop, West Haven, Conn., Jan. 23-27, 1967 [with list of literature cited]. 1969. cover title, [1]+126 p. il. [Text on p. 2 of cover. Accompanied by abstract cards.]
L.C. card 76-603987
- 15773 NE-126. Decay in upland oak stands of Kentucky; by Frederick H. Berry. 1969. cover title, 16 p. il. [Abstract cards inserted.]
L.C. card 71-603983

Research paper PNW-(series). (Pacific Northwest Forest and Range Experiment Station, Portland, Oreg.) † A 13.78: PNW-(nos.)

- 15774 PNW-78. Computer program for evaluating forestry opportunities under 3 investment criteria [with list of literature cited]; by Daniel E. Chapelle. 1969. cover title, 64+[1] p. il. 4° [Abstract cards attached.]
- 15775 PNW-79. Regeneration of white spruce with reference to interior Alaska, literature review [with bibliography; by] John C. Zasada [and] Robert A. Gregory. 1969. cover title, [1]+37+[1] p. 4° (Institute of Northern Forestry, Juneau, Alaska.)

Resource bulletin NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.)

- 15776 NE-13. Pulpwood production in Northeast, 1967; by Neal P. Kingsley and David R. Dickson. cover title, [2]+34 p. il. [Abstract cards inserted.] †
A 13.80: NE-13

***For Sale by Superintendent of Documents**

†Distribution Made by Issuing Office

‡Official Use. Not Available

GENERAL ACCOUNTING OFFICE

Washington, DC 20548

- 15777 Report to Congress: Administration of sugar marketing quotas established by Sugar act of 1948, as amended, Agricultural Stabilization and Conservation Service, Department of Agriculture; by Comptroller General of United States. Sept. 23, 1969. cover title, [5]+16 p. ill. 4° (B-118622.) † Paper, \$1.00.
L.C. card 75-604066 GA 1.13: Su 3/2
- 15778 — Economic assistance funds improperly used to finance vehicles for defense requirements, Agency for International Development, Department of State; by Comptroller General of United States. Sept. 18, 1969. cover title, [7]+34 p. il. 4° (B-167196.) † Paper, \$1.00.
L.C. card 77-604061 GA 1.13: Ec 7/2
- 15779 — Effectiveness and administration of Kilmer Job Corps Center for Men under Economic opportunity act of 1964, Edison, N.J., Office of Economic Opportunity; by Comptroller General of United States. Sept. 19, 1969. cover title, [S]+96 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 70-603815 GA 1.13: Ed 4/2
- 15780 — Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title 1B of Economic opportunity act of 1964, Detroit, Mich., Department of Labor; by Comptroller General of United States. Sept. 30, 1969. cover title, [1]+3+[4]+124 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 78-603852 GA 1.13: D 48/3
- 15781 — Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title 1B of Economic opportunity act of 1964, Los Angeles County, Calif., Department of Labor; by Comptroller General of United States. Sept. 17, 1969. cover title, [10]+96 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 73-604060 GA 1.13: L S9/2
- 15782 — Improvements needed in management of Government owned and leased real property overseas, Department of State; by Comptroller General of United States. Sept. 30, 1969. [8]+122 p. il. 4° (B-146782.) † Paper, \$1.00.
L.C. card 77-603947 GA 113: G 74/4
- 15783 — Need for improvements in administration of Veterans Administration nursing home care program; by Comptroller General of United States. Sept. 29, 1969. cover title, [1]+3+[2]+38 p. 4° (B-167656.) † Paper, \$1.00.
L.C. card 74-604071 GA 1.13: V 64/19
- 15784 — Need to improve and relocate internal audit activities in Veterans Administration; by Comptroller General of United States. Oct. 3, 1969. cover title, [7]+30 p. 4° (B-160759.) † Paper, \$1.00.
L.C. card 74-603851 GA 1.13: V 64/18
- 15785 — Need to revise fees for services provided by Immigration and Naturalization Service and United States marshals; by Comptroller General of United States. Oct. 7, 1969. cover title, [5]+22 p. 4° (B-125051.) † Paper, \$1.00.
L.C. card 70-603948 GA 1.13: Im 6
- 15786 — Progress and problems relating to improvement of Federal agency accounting systems as of Dec. 31, 1968; by Comptroller General of United States. Sept. 18, 1969. cover title, [9]+130 p. 4° (B-115398.) † Paper, \$1.00.
L.C. card 70-604054 GA 1.13: Ac 2/9
- 15787 — Review of internal audit activities in Department of Treasury; by Comptroller General of United States. Oct. 13, 1969. cover title, [S]+66 p. 4° (B-160759.) † Paper, \$1.00.
L.C. card 78-604072 GA 1.13: T 71/2

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15788 Report to Congress: Review of variations in cost and performance among community action program service activities, Office of Economic Opportunity, Department of Health, Education, and Welfare; by Comptroller General of United States. Sept. 26, 1969, cover title, [1]+3+[3]+103 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 71-604073 GA 1.13: C 73/28
- 15789 — Savings available through consolidation of Veterans Administration insurance field offices; by Comptroller General of United States. Sept. 29, 1969, cover title, [6]+32 p. il. 4° (B-114859.) † Paper, \$1.00.
L.C. card 70-604051 GA 1.13: V 64/17
- 15790 Report to Joint Committee on Atomic Energy, Congress of United States: Rotation of key military personnel assigned to SAFEGUARD antiballistic missile program, Department of Army; by Comptroller General of United States. July 31, 1969, cover title, [7]+27 p. 4° (B-164250.) † Paper, \$1.00.
L.C. card 73-604052 GA 1.13: M 59/26

GENERAL SERVICES ADMINISTRATION

Washington, DC 20405

Federal Fire Council: Recommended practices RP (series).

- 15791 1. Fire protection for essential electronic equipment [with bibliography]. Mar. 1962, revised July 1969. [1969.] cover title, vi+30 p. il. 4° [Text on p. 2-3 of cover.] † GS 1.14/7: 1/2

GEOLOGICAL SURVEY, Interior Dept

Washington, DC 20242

Bulletins. ● Item 620

I 19.3: (nos.)

- 15792 1252. Contributions to economic geology 1967 [title page and contents]. [1969.] [3] p. [This bulletin was published as separate chapters A-F.] †
- 15793 1272-A. Phosphate rock in Colombia, preliminary report [with list of references cited], by James B. Cathcart and Francisco Zambrano O.; with section on phosphate occurrence at Turmeque, by Pedro E. Mojica G. 1969. iv+77 p. il. 3 pl. in pocket. [Prepared in cooperation with Servicio Geológico Nacional of Colombia under auspices of Government of Colombia and Agency for International Development, U.S. Department of State. Contributions to economic geology.] * Paper, \$1.00.
- 15794 1276. Geology of Sandy Hook quadrangle in Monmouth County, N.J. [with list of references]; by James P. Minard. 1969. iv+43 p. il. 2 pl. in pocket [Description of coastal plain formations which are lithologically comparable with correlative units at least as far southwest as eastern Maryland. One pl. is colored.] * Paper, \$1.00.
L.C. card 73-601452
- 15795 Effects of mineralized artesian water on fresh-water biota of Taylor Slough, Everglades National Park, Fla. [with list of literature cited]; by Milton C. Kolipinski and Aaron L. Higer. Tallahassee, Fla., July 1969. 39 p. il. 4° (Water Resources Division.) [Prepared in cooperation with National Park Service. Open-file report.] † I 19.2: T 21
- 15796 Electric properties of earth at EMP (Electromagnetic Pulse) Simulator Site, Fort Huachuca, Ariz. [with list of references cited]; by R. D. Carroll, W. R. Eberle, and D. R. Cunningham]. Aug. 1969, cover title, 40 leaves, il. 4° (Special projects 26; Federal Center, Denver, Colo.) [Prepared for U.S. Army.] † I 19.2: F 77h
- 15797 Extent and frequency of floods in Beden Brook basin in Somerset and Mercer Counties, N.J. [with selected bibliography]; by Thomas G. Ross. June 1969. vii+51 p. il. 2 pl. in pocket. 4° [Open-file report. Prepared in cooperation with New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply, Trenton, N.J.] † I 19.2: B 39
- 15798 Extent and frequency of inundation on Perkiomen Creek flood plain from Green Lane Reservoir to Schuylkill River, near Oaks, Pa. [with selected bibliography]; by William F. Busch. Harrisburg, Pa., June 1969. vii+27 p. il. 3 pl. in pocket. 4° (Open-file report.) [Prepared in cooperation with Delaware River Basin Commission.] † I 19.2: P 41

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15799 Floods of Jan. and Feb. 1969 in central and southern California; by A. O. Waananen. Menlo Park, Calif., May 20, 1969. vii+233 p. il. 4° (Water Resources Division.) [Open-file report.] ‡ I 19.2: C 12/969

Investigation of floods in Hawaii, progress report.

- 15800 11. Through Sept. 30, 1968; by R. Lee and K. H. Fowler. June 1969. viii+170 p. il. 4° (Water Resources Division, Honolulu, Hawaii.) [Basic data release. Prepared in cooperation with Hawaii State Department of Land and Natural Resources and City and County of Honolulu.] ‡ I 19.57: 11

- 15801 Preliminary studies of sedimentation and hydrology in Bolinas Lagoon, Marin County, Calif., May 1967-June 1968 [with list of selected references]; by John R. Ritter. Menlo Park, Calif., Apr. 4, 1969. iv+68 p. il. 4° (Water Resources Division.) [Prepared in cooperation with Bolinas Harbor District and Marin County. Open file report.] ‡ I 19.2: B 63/967-68

Professional papers. ● Item 624

I 19.16: (nos.)

- 15802 562-D. Response of laboratory alluvial channel to changes of hydraulic and sediment-transport variables [with list of literature cited]; by R. E. Ratibun, H. P. Guy, and E. V. Richardson. 1969. iv+32 p. il. 4° [Comparison of feed and recirculation systems of flume operation for laboratory studies of sediment transport and resistance to flow. Sediment transport in alluvial channels.] * Paper, 40c.
- 15803 606-A-F. Revision of some of Girty's invertebrate fossils from Fayetteville shale (Mississippian) of Arkansas and Oklahoma [with lists of references]; by Mackenzie Gordon, jr. [and others]. 1969. [xviii]+59 + [2] p. il. 9 pl. 1 in pocket, 4° [Papers illustrating and describing certain of G. H. Girty's invertebrate fossils from Fayetteville shale. Includes title pages and tables of content to each section of Professional paper 606.] * Paper, \$1.75. L.C. card 70-650224
- 15804 614-C. October 1963 eruption of Kilauea Volcano, Hawaii [with list of references cited]; by James G. Moore and Robert Y. Koyanagi. 1969. iii+13 p. il. 1 pl. in pocket 4° [Shorter contributions to general geology. Plate is colored.] * Paper, \$1.00.
- 15805 614-E. Distribution of thorium, uranium, and potassium in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow [with list of references]; by Robert I. Tilling and David Gottfried. 1969. iii+29 p. il. 4° [Study of relationship between content of heat-producing elements and host-rock chemistry and heat flow. Shorter contributions to general geology.] * Paper, 40c.
- 15806 627-A. Precipitation regime of Long Island, N.Y. [with list of references cited]; by J. F. Miller and R. H. Frederick. 1969. vi+21 p. il. 1 pl. in pocket, 4° [Prepared in cooperation with New York State Department of Conservation, Division of Water Resources; Nassau County Department of Public Works; Suffolk County Board of Supervisors; and Suffolk County Water Authority. Hydrology and some effects of urbanization on Long Island, N.Y.] * Paper, \$1.00.
- 15807 680-B. Petrology of basalt cores from Midway Atoll [with list of references cited]; by Gordon A. MacDonald. 1969. iii+10 p. il. 4° [Descriptions of altered basalt lava flows from beneath reef cap. Geology of Midway area, Hawaiian Islands.] * Paper, 25c.

- 15808 Steps to the moon. [1969.] 36 p. il. ‡ ● Item 621
L.C. card 72-604277

I 19.2: M 77/2

- 15809 Study of deep aquifers underlying coastal Orange County, Calif. [with list of references]; by Joe A. Moreland and John A. Singer. Mar. 19, 1969. iv+27 p. il. 4° (Water Resources Division, Menlo Park, Calif.) [Prepared in cooperation with Orange County Water District. Open-file report.] ‡ I 19.2: Or 1

- 15810 Surface-water resources of Yobe River system, northern Nigeria, 1963-68; by B. E. Colson. Jan. 1969. [5]+201 p. il. map in pocket, 4° [Open-file report. Prepared in cooperation with Government of Nigeria under auspices of U.S. Agency for International Development.] ‡ I 19.2: Y 7/963-68

Techniques of water-resources investigations: Book 5, Laboratory analysis.

- 15811 chap. C1. Laboratory theory and methods for sediment analysis [with list of selected references]; by Harold P. Guy. [1969.] vi+58 p. il. 4° [Text on p. 2 and 3 of cover. Issued with perforations.] * Paper, 65c. ● Item 624-A I 19.15/5: bk.5/chap.1

GOVERNMENT PUBLICATIONS

- 15812 Water resources data for California, 1967: pt. 2, Water quality records [with list of selected references]. [1969.] x+494 p. il. 4° (Water Resources Division.) [Prepared in cooperation with California Department of Water Resources, and with other State and Federal agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, 855 Oak Grove Ave., Menlo Park, CA 94025
L.C. card 68-60769 I 19.53/2: C 12/967/pt.2
- 15813 Water resources data for Colorado, 1968: pt. 1, Surface water records. 1969. xv+394 p. 4° (Water Resources Division.) [Prepared in cooperation with State of Colorado and with other agencies.] † District Chief, Water Resources Division, U.S. Geological Survey, Denver Federal Center, Denver, CO 80225
L.C. card 68-60770 I 19.53/2: C 71/968/pt.1
- Water-supply papers. ● Item 625 I 19.13: (nos.)
- 15814 1535-N. Occurrence and distribution of molybdenum in surface water of Colorado [with list of references]; by Paul T. Voegell, sr., and Robert U. King. 1969. iii+32 p. il. 1 pl. in pocket. [Report of molybdenum contents of water from all principal Colorado streams and their chief tributaries and from a few reservoirs and lakes. Geochemistry of water.] * Paper, 65c.
- 15815 1798-F. Sedimentation in upper Stony Creek basin, eastern flank of Coast Ranges of northern California [with list of selected references]; by J. M. Knott and C. A. Dunnam. 1969. iv+35 p. il. [Prepared in cooperation with California Department of Water Resources. Sedimentation in small drainage basins.] * Paper, 25c.
- 15816 1850-B. Floods of June 1965 in South Platte River basin, Colorado [with list of selected references]; by H. F. Mathai. 1969. iv+64 p. il. 4 pl. in pocket. [Prepared in cooperation with States of Colorado and Nebraska and with agencies of Federal Government. Floods of 1965 in United States.] * Paper, \$1.00.
- 15817 1868. Sediment transport by streams in Walla Walla River basin, Wash. and Oreg., July 1962-June 1965 [with list of literature cited]; by B. E. Mapes. 1969. iv+32 p. il. 1 map in pocket. [Prepared in cooperation with Washington State Department of Water Resources and U.S. Army Corps of Engineers.] * Paper, 60c.
L.C. card 70-602400
- 15818 1870-B. Floods of Apr. 28, 1966 in northern part of Dallas, Tex. [with list of selected references]; by Willard B. Mills and Elmer E. Schroeder. 1969. iv+37 p. il. 2 pl. in pocket. [Prepared in cooperation with city of Dallas. Floods of 1966 in United States.] * Paper, \$1.25.

HEALTH, EDUCATION AND WELFARE DEPARTMENT

Washington, DC 20201

- 15819 Cost of clean air, 1st report of Secretary of Health, Education, and Welfare to Congress in compliance with Public law 90-148, Air quality act of 1967 [with list of references; prepared by National Air Pollution Control Administration]. June 1969. [1]+iv+111 p. 4° † ● Item 445
L.C. card 76-604093 FS 1.35: 969
- 15820 Mental retardation grants: [pt. 1, Construction, training, and other grants], fiscal year 1968. May 1969. cover title, viii+100 p. 4° ([Secretary's Committee on Mental Retardation.]) † ● Item 445-G
L.C. card 65-61306 FS 1.23/3: 968/pt.1
- 15821 Report of Secretary's Review Committee of Task Force on Prescription Drugs. [1969.] viii+164 p. 4° † ● Item 445
L.C. card 72-604269 FS 1.2: D 84

HOUSING AND URBAN DEVELOPMENT DEPARTMENT

Washington, DC 20410

- 15822 Address by Samuel J. Simmons, Assistant Secretary for Equal Opportunity, Department of Housing and Urban Development, Nationwide Tenants Rights Program, Cleveland, Ohio, Sept. 6, 1969. 1969. [1]+11 p. 4° †
HH 1.7: Si 4/2
- 15823 Address prepared for delivery by Floyd H. Hyde, Assistant Secretary for Model Cities and Governmental Relations, Department of Housing and Urban Development, annual conference, League of California Cities, San Francisco, Calif., Oct. 1, 1969. 1969. [1]+9 p. 4° †
HH 1.7: H 99/3

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15824 Address prepared for delivery by Lawrence M. Cox, Assistant Secretary for Renewal & Housing Assistance, Department of Housing and Urban Development before General Membership Meeting, Tidewater Association of Homebuilders, Sept. 23, 1969, Norfolk, Va. 1969. [1]+15 p. 4° †
HH 1.7: C 83/2
- 15825 Address prepared for delivery by Lester P. Condon, Assistant Secretary for Administration, Department of Housing and Urban Development before regional housing seminar, sponsored by HUD and American Gas Association, San Francisco, Calif., Oct. 10, 1969. 1969. [1]+8 p. 4° †
HH 1.7: C 75
- 15826 519 East Main Street, tribute to partnership and involvement, address by Marie C. McGuire, Assistant for Problems of Elderly and Handicapped, at dedication of 519 East Main Street, Durham, N.C., Sept. 16, 1969. [1969.] [1]+7 p. 4° †
HH 1.7: M 17/13
- HUD guide.
- 15827 FHA G 4541.1. Design criteria for trussed rafters. Sept. 5, 1969. [3]+1+12 p. il. 4° [Includes Transmittal notice. Issued with perforations. Supersedes Trussed rafter criteria contained in Minimum property standards FHA 300 and FHA 2600.] † ● Item 582-E
HH 1.6/7: FIA G 4541.1
- HUD handbooks. HH 1.6/6: (nos.)
- 15828 1900.4A. Letter of credit procedures (recipient organizations). June 1969. [22] p. il. 4° [Issued with perforations. Supersedes Handbook 1900.4.] † ● Item 582-E
- 15829 3206.2A. Disaster relief activities. June 1969. [8]+13+3 p. 4° [Issued with perforations. Revises Circular 3200.2, Regional disaster relief activities.] †
- 15830 RHA 7203.1-7228.1. Urban renewal handbook transmittal. [Aug. 18, 1969.] [38] p. 4° [Issued with perforations. Includes transmittal notice 37.] * Paper, \$14.00 (including basic manual and supplementary material for indefinite period); \$4.00 additional for foreign mailing. ● Item 582-E
- 15831 RHA 7210.1. Urban renewal handbook transmittal. [Aug. 18, 1969.] [23] p. 4° [Issued with perforations. Includes transmittal notice 36.] * Paper, \$14.00 (including manual and supplementary material for indefinite period); \$4.00 additional for foreign mailing. ● Item 582-E
- 15832 RHA 7212.1, 7216.1. Urban renewal handbook transmittal. [Sept. 3, 1969.] [30] p. 4° [Issued with perforations. Includes transmittal notice 35.] * Paper, \$14.00 (including basic manual and supplementary material for indefinite period); \$4.00 additional for foreign mailing. ● Item 582-E
- 15833 RHA 7560.1. Low-rent housing financing handbook. June 1969. [63] p. 4° [Issued with perforations.] † ● Item 582-E
- 15834 HUD newsletter. (Office of Public Affairs.) [Irregular. Replaces HUD consumer newsletter.] †
HH 1.15/4: (nos.)
No. 1—Sept. 1969—
- IP—(series.) † ● Item 582-G HH 1.21: (nos.)
- 15835 112. Your housing rights, live where you want to live. [June 1969.] [2] p. il. large 8° folded into oblong 32°
- 15836 500. Bringing your property up to insurance standards, rehabilitation grants and loans to meet insurability requirements in FAIR plan areas. [Sept. 1969.] [2] p. il. narrow 8° folded into oblong 32° size.
- MP (series). ● Item 582-H HH 1.28: (nos.)
- 15837 105. Statistical yearbook, 1967. [June 1969.] 382 p. 4° * Paper, \$3.00.
L.C. card 68-62733
- 15838 108. Bibliography on housing, building and planning, for use of overseas missions of United States Agency for International Development; prepared by the Library. [1969.] 11+43 p. 4° (Division of International Affairs.) †
- 15839 Remarks prepared for delivery by Richard C. Van Dusen, Under Secretary of Housing and Urban Development, American Bar Association, Administrative Law Section, National Institute on Federal Urban Grants, Oct. 3, 1969. 1969. 14 p. 4° †
HH 1.7: V 28/2

GOVERNMENT PUBLICATIONS

- 15840 Remarks prepared for delivery by Richard C. Van Dusen, Under Secretary of Housing and Urban Development, Building & Construction Trades Department Convention, AFL-CIO, Sept. 23, 1969, Atlantic City, N.J. 1969. 13 p. 4° † HH 1.7: V 28
- 15841 Role of the central city, address by Lawrence M. Cox, Assistant Secretary for Renewal and Housing Assistance, Department of Housing and Urban Development, to National Conference, Central Business District, U.S., International Downtown Executives Association, Washington, D.C., Sept. 19, 1969. [1969.] [1]+5 p. 4° † HH 1.7: C 83
- 15842 Search for unity, remarks prepared for delivery by Lawrence M. Cox, Assistant Secretary for Renewal and Housing Assistance, Department of Housing and Urban Development, to National Conference, National Association of Housing and Redevelopment Officials, Bal Harbour, Fla., Oct. 13, 1969. [1969.] [1]+14 p. 4° † HH 1.7: C 83/3
- 15843 Statement by Samuel J. Simmons, Assistant Secretary for Equal Opportunity, Department of Housing and Urban Development at public hearing for purpose of implementing Executive order 11246 by Department of Labor, Chicago, Ill., Sept. 24, 1969. 1969. [1]+13 p. 4° † HH 1.7: Si 4/3
- 15844 This is operation breakthrough. Sept. 1969. 8 p. il. narrow 8° ([HUD-13-RT].) † ● Item 582 HH 1.2: B 74/2

IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept. Washington, DC 20536

- 15845 Annual indicator of in-migration into United States of aliens in professional and related occupations, fiscal year 1968; prepared by Staff of Immigration and Naturalization Service for Council on International Educational and Cultural Affairs. June 1969. cover title, iv+177 p. il. 4° * Paper, \$1.75. ● Item 723-C J 21.15: 968
L.C. card 68-67277
- 15846 Federal textbook on citizenship: English and Federal Government, home study course [sec. 2 for student]. Revised 1969. [1969.] vii+172 p. il. 4° (M-43.) [Includes copyright material.] * Paper, \$1.75. ● Item 724 J 21.9: En 3/sec.2/969
L.C. card 45-36641

INDIAN AFFAIRS BUREAU, Interior Dept. Washington, DC 20240

- 15847 Address by Commissioner of Indian Affairs Louis R. Bruce, at 25th anniversary convention of National Congress of American Indians, Albuquerque, N. Mex., Oct. 9, 1969. 1969. 4 leaves, 4° † I 20.27: B 83

INTERIOR DEPARTMENT Washington, DC 20240

NOTE.—Requests to the Interior Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

[Conservation bulletin].

- 15848 39. America's department of natural resources, the Department of Interior. [1969.] 47 p. il. * Paper, 40c. ● Item 601 I 1.72: 39/5
L.C. card 77-604270
- 15849 1969-70 listings of conservation films and related natural resource film subjects. [1969.] [2] p. narrow f° folded into oblong 48° † I 1.2: C 76/5
- 15850 Missouri River Basin progress, annual report. [fiscal year] 1969. [1969.] cover title, [1]+iii+165 p. il. 1 pl. 4° [For administrative purposes.] † I 1.80: 969
- 15851 Remarks by Russell E. Train, Under Secretary of Interior before National Petroleum Refiners Association, Washington, D.C., Sept. 22, 1969. [1969.] 12 leaves. 4° † I 1.68: T 68

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 15852 Remarks by Secretary of Interior Walter J. Hickel before National Congress of American Indians, Albuquerque, N. Mex., Oct. 8, 1969. [1969.] 5 leaves, 4° † I 1.68: 11 52/7
- [Saline water] research and development progress report. (Office of Saline Water.) ● Item 604-A-1 I 1.88: (nos.)
- 15853 389. Study of 250-MGD multistage flash distillation plant with 2-level brine flow; pt. 1, Design and cost estimate [with list of references]; by Oak Ridge National Laboratory, Oak Ridge, Tenn., [pt. 2, Preliminary engineering analysis and capital cost estimate; by Bechtel Corporation, San Francisco, Calif.] Mar. 1969. x+254 p. il. 4° (ORNL-OSW agreement 14-01-0001-534.) * Paper, \$3.50.
- 15854 428. New design concept for reverse osmosis membrane cells; by G. A. Fluke, Aerojet-General Corporation, El Monte, Calif. May 1969. iv+50+A-9 p. il. 4° (Contract 14-01-0001-1329.) * Paper, \$1.25.
- 15855 457. Pumping and energy recovery systems for reverse osmosis desalination plants; by K. E. Hickman [and others], Dynatech R/D Company, Div. of Dyna-Tech Corp., Cambridge, Mass. Aug. 1969. xvii+263 p. il. 4° (Contract 14-01-0001-1462.) * Paper, \$2.00.
- 15856 459. Hydrodynamic studies for electroanalysis [with list of references]; by G. Belfort and G. A. Guter, McDonnell Douglas Corporation, Newport Beach, July 1969. xii+144 p. il. 4° (Contract 14-01-0001-1313.) * Paper, \$1.25.
- 15857 460. Synthesis and evaluation of new membrane candidates for application in reverse osmosis [with list of references]; by Thomas W. Brooks and Carl L. Daffin, Peninsular Chem-Research, Gainesville, Fla. Oct. 1969. viii+33 p. 4° (Contract 14-01-0001-1260.) * Paper, 50c.
- 15858 461. Basic studies of scale control [with list of references]; by Chin H. Lu [and others], Monsanto Research Corporation, Boston, Mass. Mar. 1969. v+52 p. il. 4° (Contract 14-01-0001-1269.) * Paper, 60c.
- 15859 462. Communities of over 1000 population with water containing in excess of 1000 ppm of total dissolved solids; by W. L. Patterson and R. F. Banker, Black & Veatch, Kansas City, Mo. Oct. 1969. iv+49 p. il. 4° (Contract 14-01-0001-1777.) * Paper, 70c.
- 15860 465. Characterization of cellulose acetate membranes and ultrathin films for reverse osmosis [with bibliography]; by C. P. Bean, General Electric Company, Schenectady, N.Y. Oct. 1969. lii+73 p. il. 4° (Contract 14-01-0001-1480.) * Paper, 70c.
- 15861 467. Study of methods to retard compaction of cellulose acetate membranes in reverse osmosis desalination [with list of references]; by Bernard Baum, Stanley A. Margosiak, and William H. Holley, Jr., DeBell & Richardson, Inc., Hazardville, Conn. Oct. 1969. iv+75 p. il. 4° (Contract 14-01-0001-1177.) * Paper, 70c.
- 15862 468. Desalination research at Oak Ridge; by K. A. Kraus, [and others] Oak Ridge National Laboratory, Oak Ridge, Tenn. Aug. 1969. iv+53 p. 4° (Agreement 14-01-0001-937.) * Paper, 60c.
- 15863 469. Final report on control of concentration polarization in reverse osmosis desalination of water [with list of literature cited]; H. J. Bixler and R. A. Cross, Amicon Corporation, Lexington, Mass. Oct. 1969. v+57 p. il. 4° (Contract 14-01-0001-964.) * Paper, 60c.
- 15864 471. Reverse osmosis membrane regeneration [with list of literature cited]; by E. A. G. Hamer and R. L. Kalish, American Standard Incorporated, New Brunswick, N.J. Sept. 1969. vii+80 p. il. 4° (Contract 14-01-0001-1171.) * Paper, 75c.

INTERNAL REVENUE SERVICE, Treasury Dept.
Washington, DC 20224

- 15865 Index-digest supplement system: Service 1, income tax, supplement 1, Jan.-June 1969. [1969.] 57 p. 4° (Publication 641, suppl. 1.) * Paper, \$9.50 a yr. (including basic volume and supplementary material for an indefinite period; \$2.50 additional for foreign mailing. ● Item 960 T 22.25/5: 965-68/supp.1
- 15866 — Service 2, Estate and gift taxes, supplement 1, Jan.-June 1969. [1969.] 10 p. 4° (Publication 642, suppl. 1.) * Paper, \$1.50 (including basic volume and supplementary material for indefinite period); 50c. additional for foreign mailing. ● Item 960 T 22.25/6: 965-68/supp.1
- 15867 — Service 3, employment taxes, supplement 1, Jan.-June 1969. [1969.] 10 p. 4° (Publication 643, suppl. 1.) * Paper, \$1.50 a yr. (including basic volume and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 960 T 22.25/7: 965-68/supp.1
- 15868 Internal auditor, Internal Revenue Service. [1969.] cover title, 16 p. il. (Publication 652 (6-69).) † ● Item 956 T 22.2: Au 2/3

GOVERNMENT PUBLICATIONS

- 15869 Looseleaf regulations system : Service 1, Income tax, transmittal 1. Oct. 10, 1969. [3353] p. 4° [Preprint of regulations published in Federal register through Jan. 31, 1969.] ● Item 961 T 22.19/3 : 1/rep.969/trans.1

NOTE.—Service 1 consists of pts. 1, 2, 15, and 16 of title 26 of Code of regulations. It is sold on a subscription basis by the Superintendent of Documents, \$27.00 (including basic material and supplements issued for an indefinite period) ; \$7.00 additional for foreign mailing.

- 15870 Looseleaf regulations system : Service 4, Excise taxes. June 2, 1969. [738] p. 4° [Consolidated reprint of basic regulations and amendments issued and published in transmittals 1-56.] ● Item 961 T 22.19/3 : 4/rep. 969

NOTE.—Service 4 consists of pts. 40-42, 44-50, and 146-150, 152 of title 26 of Code of Federal regulations. It is sold on a subscription basis by the Superintendent of Documents, \$8.00 (including basic material and supplements issued irregularly for approximately 3 years) ; \$3.00 additional for foreign mailing.

- 15871 Questions and answers, Gun control act of 1968. [1969.] 24 p. oblong 32° (Publication 650 (Rev. 8-69).) † ● Item 956 T 22.2 : G 95/969
L.C. card 77-604037

- 15872 Revenue agent, career in professional accounting. [1969.] cover title, 16 p. il. ([Publication 621 (9-69).]) † ● Item 956 T 22.2 : R 32/2/969
L.C. card 79-604032

- 15873 Revenue officer. [1969.] cover title, 16 p. il. ([Publication 622 (9-69).]) † ● Item 956 T 22.2 : R 32/969
L.C. card 75-604031

- 15874 Statistics of income 1967: Individual income tax returns. [1969.] cover title, viii+259 p. il. 4° ([Publication 79 (7-69) ; Statistics Division.]) [On p. 2 of cover publication number reads 79 (8-69).] * Paper, \$2.75. ● Item 964 T 22.35/2 : In 2/967
L.C. card 61-37567

Title 26, Code of Federal regulations, pt.

- 15875 196. Stills. Revised July 1, 1969. [1969.] cover title, 15 p. (Publication 223 (Rev. 7-69).) * Paper, 15c. ● Item 961 T 22.17/3 : 196/3

INTERNATIONAL COMMERCE BUREAU, Commerce Dept. Washington, DC 20230

Foreign economic trends and their implications for United States. ET (series). * Paper, \$15.00 a yr., \$6.00 additional for foreign mailing. ● Item 231-I C 42.30 : (nos.)

- 15876 69-89. Guyana. July 1, 1969. 10+[2] p. il. 4° (American Embassy, Georgetown.) [Annual.]
15877 69-93. Republic of China. Aug. 15, 1969. 10+[1] p. 4° [Semiannual.]
15878 69-95. Australia. Sept. 1, 1969. 12 p. 4° (American Embassy, Canberra.) [Semiannual.]
15879 69-96. Uruguay. Sept. 1, 1969. 8 p. il. 4° [Semiannual.]
15880 69-97. Germany. Sept. 1, 1969. 11 p. il. 4° (American Embassy, Bonn.) [Semiannual.]
15881 69-98. Morocco. Aug. 1969. 8 p. 4° (American Embassy, Rabat.) [Semiannual.]
15882 69-99. The Philippines. Sept. 1, 1969. 11 p. il. 4° (American Embassy, Manila.) [Semiannual.]
15883 69-100. Thailand. Aug. 31, 1969. 12 p. il. 4° [Semiannual.]
15884 69-101. Dominican Republic. Sept. 1, 1969. 8 p. 4° [Semiannual.]
15885 69-103. Nigeria. Sept. 15, 1969. 12 p. 4° (American Embassy, Lagos.) [Semiannual.]
15886 69-104. Pakistan. Sept. 15, 1969. 12 p. 4° [Semiannual.]
15887 69-105. Uganda. Sept. 10, 1969. 10+[1] p. il. 4° (American Embassy, Kampala.) [Annual.]

- 15888 Grow with world trade, text of address by E. E. Schnellbacher, Assistant Director of Bureau of International Commerce, Department of Commerce, prepared for delivery aboard Good Ship Export on Mississippi River at Davenport, Iowa, Sept. 28, 1969. 1969. 6 p. 4° † C 42.18 : Sch 5/2S

- 15889 Semiannual checklist, Bureau of International Commerce, international business publications. Sept. 1969. 21 p. il. 4° † ● Item 231-D C 42.15 : C 41/969-2

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

NOVEMBER 1969

- 15890 Small business participation in commerce export expansion activities, 1968. [May 1, 1969.] [2]+24 p. 4° ‡ C 42.2: Sm 1/968
- 15891 World is your market, address by E. E. Schnellbacher, Assistant Director of Bureau of International Commerce, Commerce Department, prepared for delivery at Iowa World Trade dinner, Fort Madison, Iowa, Sept. 29, 1969. [1969.] 7 p. 4° ‡ C 42.18: Sch 5/29

INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, DC 20523

- 15892 Challenge of development. [Aug. 1969.] cover title, 36 p. il. oblong 8° ‡ S 18.2: D 49/3
- 15893 ". . . Doing what is right to do." [1969.] [7] p. il. narrow 8° ‡ S 18.2: R 44

INTERSTATE COMMERCE COMMISSION Washington, DC 20423

- 15894 Remarks of Commissioner Laurence K. Walrath, Interstate Commerce Commission, before National Conference of State Transportation Specialists, Seattle, Wash., May 8, 1968. 1968. [1]+16 p. 4° ‡ IC 1.16: W 16
- 15895 Transport statistics in United States, 82d annual report on transport statistics for year ended Dec. 31, 1968; prepared by Bureau of Accounts. Issued in sections and parts, punched for binders. [This 1968 report when completed will consist of pts. 1, 5, 6, 7, 8, and 9.]
pt. 1. [Railroad, their lessors and proprietary companies, Pullman Company, Railway Express Agency, Inc., and electric railways, release 1.] [336] p. 4°
* Paper, \$2.00. • Item 699 IC 1.25: 968/pt.1/release 1
- 15896 Uniform system of accounts of class 1 and class 2 common and contract motor carriers of property. Jan. 1, 1969. cover title, 68 p. * Paper, 35c.
• Item 689 IC 1 mot.6: P 94/3/969
L.C. card A39-S21

JOINT PUBLICATIONS RESEARCH SERVICE Washington, DC 20443

NOTE.—Titles of JPRS serial reports listed below were issued during the month, but were not cataloged separately. Φ (Price upon application).

- 15897-1 Communist Chinese scientific abstracts, nos. 17, 18, 22, 25-28 JPRS 48136, 48146, 48392, 48646, 48759, 49007, 49042.
- 15897-2 East European scientific abstracts: Bio-medical science, nos. 154, 158, 162-165; JPRS 48132, 48413, 48775, 48869, 48920, 49037.
- 15897-3 East European scientific abstracts: Chemistry: Chemistry, nos. 114-115; JPRS 48731, 49047.
- 15897-4 East European scientific abstracts: Cybernetics, computers, and automation technology. nos. 51-52; JPRS 48694, 49003.
- 15897-5 East European scientific abstracts: Earth sciences, nos. 80-81; JPRS 48695, 49001.
- 15897-6 East European scientific abstracts: Electronics and electrical engineering, nos. 59-60; JPRS 48730, 49002.
- 15897-7 East European scientific abstracts: Engineering and equipment, nos. 58-59; JPRS 48729, 49045.
- 15897-8 East European scientific abstracts: Materials science and metallurgy, nos. 38-39; JPRS 48693, 49046.
- 15897-9 East European scientific abstracts: Physics and mathematics, nos. 104-105; JPRS 48732, 49000.
- 15897-10 Herald of communications, v. 29, nos. 3, 5-7, 1969; JPRS 48387, 48728, 48795, 48953.
- 15897-11 Index of Le Monde, nos. 104-105; JPRS 48727, 48868.
- 15897-12 Meteorology and hydrology, USSR, nos. 7-8, 1969; JPRS 48809, 48963.
- 15897-13 Soviet public health, USSR, v. 28, nos. 3, 6, 8, 1969; JPRS 48412, 48679, 48700, 48952, 49022.
- 15897-14 Space biology and medicine, v. 3 nos. 2-3; JPRS 48416, 48854.
- 15897-15 Translations from Kommunist, nos. 5-6, 10-12, 1969; JPRS 48107, 48141, 48733, 48818, 49023.
- 15897-16 Translations on Africa, nos. 787, 788, 797-799, 807-826; JPRS 48108, 48148, 48378, 48409, 48420, 48630, 48666, 48702, 48725, 48760, 48766, 48817, 48831, 48866, 48874, 48906, 48912, 48916, 48944, 48951, 48966, 48980, 49021, 49043, 49075.
- 15897-17 Translations on Communist China, nos. 55, 60, 61, 67-74; JPRS 48128, 48398, 48411, 48654, 48741, 48788, 48870, 48911, 48982, 49005, 49030.

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
•Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 15897-18 Translations on Eastern Europe: Economic and industrial affairs, nos. 130-132, 116-149, 166-200: JPRS 48103, 48139, 48147, 48373, 48393, 48404, 48415, 48647, 48651, 48658, 48669, 48675, 48685, 48705, 48718, 48736, 48747, 48755, 48771, 48787, 48792, 48815, 48827, 48850, 48862, 48873, 48886, 48892, 48904, 48933, 48939, 48956, 48967, 48969, 48988, 48996, 49008, 49026, 49040, 49056, 49068, 49073.
- 15897-19 Translations on Eastern Europe: Political, sociological, and military affairs, nos. 100, 112, 113, 124-146: JPRS 48138, 48394, 48403, 48649, 48650, 48717, 48763, 48776, 48790, 48811, 48826, 48846, 48875, 48882, 48893, 48913, 48931, 48945, 48960, 48990, 48997, 49018, 49029, 49058, 49070, 49086.
- 15897-20 Translations on Eastern Europe: Scientific affairs, nos. 59, 66-78: JPRS 48400, 48677, 48738, 48751, 48802, 48832, 48883, 48935, 48942, 48979, 49019, 49059, 49065, 49079.
- 15897-21 Translations on Latin America: nos. 182-185, 200-203, 216-244: JPRS 48104, 48112, 48118, 48126, 48379, 48381, 48395, 48417, 48638, 48657, 48673, 48689, 48721, 48726, 48742, 18746, 48754, 48769, 48785, 48794, 48816, 48828, 48836, 48855, 48865, 48881, 48897, 48914, 48928, 48948, 48975, 48978, 48984, 49011, 49027, 49051, 49063.
- 15897-22 Translations on Mongolia, nos. 197, 201-207: JPRS 48408, 48635, 48750, 48895, 48905, 48961, 48995, 49066.
- 15897-23 Translations on Near East, nos. 354, 363, 374-393: JPRS 48140, 48406, 48636, 48665, 48708, 48745, 48764, 48797, 48834, 48853, 48872, 48889, 48899, 48930, 48949, 48973, 48998, 49004, 49028, 49041, 49071, 49080.
- 15897-24 Translations on North Korea, nos. 116, 120, 121, 125-131: JPRS 48127, 48372, 48402, 48678, 48740, 48773, 48778, 48844, 48936, 49032.
- 15897-25 Translations on North Vietnam, 543-547, 567, 568, 483-618: JPRS 48106, 48111, 48115, 48119, 48142, 48389, 48414, 48631, 48633, 48656, 48674, 48676, 48696, 48699, 48713, 48734, 48779, 48782, 48789, 48808, 48812, 48830, 48849, 48863, 48871, 48885, 48891, 48927, 48932, 48940, 48946, 48950, 49068, 48983, 48986, 48992, 49014, 49024, 49039, 49062, 49074, 49089, 49090.
- 15897-26 Translations on south and east Asia, nos. 224-232: JPRS 48686, 48716, 48768, 48835, 48856, 48894, 48943, 48991, 49088.
- 15897-27 Translations on USSR agriculture, 317-318, nos. 324, 333-347: JPRS 48105, 48116, 48401, 48653, 48704, 48714, 48770, 48813, 48845, 48880, 48900, 48907, 48925, 48976, 48999, 49034, 49057, 49087.
- 15897-28 Translations on USSR economic affairs, nos. 19, 31, 3239-58: JPRS 48125, 48407, 48410, 48628, 48634, 48640, 48752, 48786, 48793, 48814, 48833, 48840, 48861, 48908, 48924, 48964, 48974, 48989, 49017, 49036, 49038, 49048, 49072.
- 15897-29 Translations on USSR industrial affairs, nos. 14, 19-26: JPRS 48376, 48690, 48715, 48879, 48937, 48955, 48981, 49020, 49050.
- 15897-30 Translations on USSR military affairs, nos. 529, 538-555: JPRS 48418, 48639, 48648, 48655, 48710, 48722, 48757, 48765, 48772, 48842, 48847, 48887, 48910, 48938, 48959, 48985, 48993, 49033, 49076.
- 15897-31 Translations on USSR political and sociological affairs, nos. 12, 18, 24-26, 28-32: JPRS 48135, 48390, 48660, 48719, 48758, 48857, 48915, 48962, 49013, 49069.
- 15897-32 Translations on USSR resources, nos. 19-20, 27, 33-48: JPRS 48110, 48144, 48399, 48632, 48652, 48709, 48737, 48781, 48819, 48848, 48901, 48926, 48954, 48987, 48994, 49006, 49049, 49064, 49078.
- 15897-33 Translations on USSR trade and services, nos. 19, 31, 42-59: JPRS 48121, 48391, 48683, 48711, 48723, 48756, 48784, 48822, 48841, 48864, 48878, 48899, 48909, 48923, 48977, 49016, 49035, 49044, 49067, 49077.
- 15897-34 Translations on Western Europe, 44, 50, 51, nos. 59-72: JPRS 48137, 48375, 48405, 48629, 48659, 48691, 48739, 48761, 48777, 48852, 48877, 48917, 48970, 48972, 49012, 49031, 49085.
- 15897-35 USSR scientific abstracts: Bio-medical science nos. 70-76: JPRS 48662, 48672, 48684, 48720, 48902, 48965, 49082.
- 15897-36 USSR scientific abstracts: Chemistry, nos. 73, 76: JPRS 48130, 48884.
- 15897-37 USSR scientific abstracts: Cybernetics, computers, and automation technology, nos. 77-81: JPRS 48650, 48859, 48805, 48829, 48929.
- 15897-38 USSR scientific abstracts: Electronics and electrical engineering, no. 112: JPRS 48703.
- 15897-39 USSR scientific abstracts: Materials science and metallurgy, nos. 64-65: JPRS 48782, 49061.
- 15897-40 USSR scientific abstracts: Mathematics and Physics, nos. 194-195, 199: JPRS 48131, 48145, 48791.
- 15897-41 Vestnik of the USSR Academy of Medical Sciences, nos. 4-8, 1969: JPRS 48124, 48380, 48642, 48809, 48941.
- 15897-42 Vestnik of USSR Academy of Sciences, v. 39, nos. 3-4, 6-7: JPRS 48129, 48382, 48823, 48903.

JPRS (series).

Y 3.J 66: 13/(nos.)

- 15898 48114. Regulation and control in management systems, USSR [with bibliography]: by M. K. Babunashvili, et al. May 27, 1969, cover title, 23 p. il. 4°. [From Ekonomika i matematicheskiye metody, v. 5, no. 2, 1969.] Φ Paper, \$3.00.
- 15899 48117. Effect of ionizing radiation on ammonium perchlorate-base fuel combustion, USSR [with bibliography]: by V. A. Strunin, et al. May 28, 1969, cover title, 9 p. il. 4°. [From Fizika goreniya i vzryva, no. 4, 1968.] Φ Paper, \$3.00.
- 15900 48120. Subject index of regulations published in Shirkha zanoku CSSR during 1968, Czechoslovakia, May 28, 1968, cover title, 123 p. 4°. Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15901 48122. Problems of bloncles, USSR [articles, with bibliographies], May 28, 1969, cover title, a-b+208 p. il. 4° [From voprosy bioniki, 1967.] Φ Paper, \$3.00.
- 15902 48123. Motion of bats toward plane targets and nature of changes of echolocate signals in progress of target selection and recognition, USSR [with bibliography]; by G. N. Simkin, et al. May 28, 1969, cover title, 11 p. il. 4° [From Biologicheskkiye Nauki, no. 3, 1969.] Φ Paper, \$3.00.
- 15903 48133. Roster of nominees for membership to USSR Academy of Medical Sciences, May 29, 1969, cover title, 69 p. 4° [From Meditsinskaya gazeta, Jan. 14, 1969.] Φ Paper, \$3.00.
- 15904 48134. Hygienic significance of metaphors at atmospheric pollutant, USSR [with bibliography]; by B. K. Akhmedov. May 29, 1969, cover title, 7 p. il. 4° [From Gigiyena i sanitariya no. 10, 1968.] Φ Paper, \$3.00.
- 15905 48143. Effect of LSD on central nervous system (survey), USSR [with bibliography]; by E. N. Popova. June 2, 1969, cover title, 14 p. 4° [From Zhurnal nevroptatologii i psikiatrii imeni S.S. Korsakov, no. 3, 1969.] Φ Paper, \$3.00.
- 15906 48374. Biological data on Aspius aspius ibioides, USSR [with bibliography]; by Ye. L. Markova. July 9, 1969, cover title, 10 p. il. 4° [From Byulleten' Moskovskogo obshchestva ispytateley prirody, otdel biologicheskii, no. 2, 1969.] Φ Paper, \$3.00.
- 15907 48377. 1st All-Union conference on game theory, USSR; by V. Patsynkov. July 9, 1969, cover title, 6 p. 4° [From Izvestiya Akademii Nauk SSSR; Tekhnicheskaya kibernetika, no. 1, 1969.] Φ Paper, \$3.00.
- 15908 48383. Problems of weightlessness discussed, USSR [articles, with bibliographies], July 10, 1969, cover title, a+22 p. il. 4° [From Izvestiya Akademii Nauk SSSR, seriya biologicheskaya, no. 3, 1969.] Φ Paper, \$3.00.
- 15909 48384. Soviet prizes in science and technology, July 10, 1969, cover title, 14 p. 4° [From Izvestiya, May 7, 1969.] Φ Paper, \$3.00.
- 15910 48385. Medical conferences, USSR, July 10, 1969, cover title, a+27 p. 4° [From Meditsinskaya gazeta Feb. 4, 18, 1969.] Φ Paper, \$3.00.
- 15911 48386. Agents of bacteriological and chemical warfare, USSR [articles, with bibliographies], July 10, 1969, cover title, a+61 p. il. 4° Φ Paper, \$3.00.
- 15912 48388. Activities of Ukrainian Academy of Sciences [articles], July 10, 1969, cover title, a+13 p. 4° [From Radyanska Ukrayina, May 22, 1969.] Φ Paper, \$3.00.
- 15913 48396. Translation in field of Soviet cybernetics [articles, with bibliographies], July 11, 1969, cover title, a+65 p. il. 4° [From Problemy kibernetiki, no. 20, 1968.] Φ Paper, \$3.00.
- 15914 48397. Standards raised for propeller static balancing, USSR [with bibliography]; by S. M. Gorokhovskiy, et al. July 11, 1969, cover title, 13 p. il. 4° [From Sudostroyeniye no. 3, Mar. 1969.] Φ Paper, \$3.00.
- 15915 48626. Aerial methods of studying and mapping sands, USSR [with bibliography]; by N. G. Kharin, et al. Aug. 15, 1969, cover title, 9 p. il. 4° [From Vestnik sel'skokhozyaystvennoy nauki, no. 6, 1969.] Φ Paper, \$3.00.
- 15916 48627. Soviet budget provides for research and defense, USSR; by V. V. Lavrova, et al. Aug. 15, 1969, cover title, a+5 p. 4° [From Gosudarstvennyy byudzhel SSR, Moscow, 1968.] Φ Paper, \$3.00.
- 15917 48637. Latvia's future in science, technology scanned, USSR; by F. Lekhtman, Aug. 18, 1969, cover title, 8 p. 4° [From Kommunist Sovetskoy Latvii, no. 7, 1969.] Φ Paper, \$3.00.
- 15918 48641. Suspended surface coatings for heat shieldings; USSR; by Yu. A. Dushin. Aug. 19, 1969, cover title, 8 p. 4° [From Inzhenerno-fizicheskii zhurnal, v. 8, no. 3, 1965.] Φ Paper, \$3.00.
- 15919 48643. Possibility of measuring radiation coefficients of right-angle cruciform slot antennas with allowance for their reciprocal effect, USSR [with bibliography], Aug. 19, 1969, cover title, 7 p. il. 4° [From Radiotekhnika, Jan. 1965.] Φ Paper, \$3.00.
- 15920 48644. Gas chromatography used to study air pollution, USSR; by S. F. Yavovrovskaya, Aug. 19, 1969, cover title, 6 p. il. 4° [From Gigiyena truda i professional'nyye zaboilevaniya, no. 1, 1969.] Φ Paper, \$3.00.
- 15921 48645. Computation engineering in physiology and medicine, USSR [with bibliography]; by Ye. B. Babskiy, et al. Aug. 19, 1969, cover title, a+31 p. il. 4° [Nauka Press, Moscow, 1968.] Φ Paper, \$3.00.
- 15922 48661. Structure of national economy, USSR [excerpts]; by A. I. Potkina, Aug. 21, 1969, cover title, a+182 p. 4° [Nauka Publishing House, 1967.] Φ Paper, \$3.00.
- 15923 48663. Selections from Bulletin of experimental biology and medicine, USSR, [with bibliographies], Aug. 21, 1969, cover title, a+10 p. il. 4° Φ Paper, \$3.00.
- 15924 48664. Avalanche diodes and their application in microwave equipment, USSR; by A. S. Tager, et al. Aug. 21, 1969, cover title, a+202 p. il. 4° [From Lavlino-Proletnyye Diody i ikh Primeneniye v tekhnike SVCh, 1968.] Φ Paper, \$3.00.
- 15925 48667. Survey of Soviet electronic industry; by Satoshi Kojima, et al. Aug. 22, 1969, cover title, 10 p. 4° [From Tokyo, Journal of Institute of Electronics and Communications Engineers of Japan, no. 2, Feb. 1969.] Φ Paper, \$3.00.
- 15926 48668. Selections from Journal problems of philosophy, USSR, Aug. 22, 1969, cover title, a+75 p. 4° Φ Paper, \$3.00.
- 15927 48670. Some distinctions of higher nervous activity in Black Sea dolphin (Tursiops truncatus), USSR [with bibliography]; by I. G. Voronin, et al. Aug. 22, 1969, cover title, 13 p. il. 4° [From Zhurnal vysshey nervnoy deyatel'nosti imeni I. P. Pavlova, v. 19, no. 2, 1969.] Φ Paper, \$3.00.

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

JPRS (Series)—Continued

- 15928 48671. Salt water desalination by freezing method, USSR [with bibliography]; by I. M. Rutgazyer, et al. Aug. 22, 1969. cover title, 12 p. il. 4° [From Vodosnabzheniye i sanitarnaya tekhnika, no. 6, 1969.] Φ Paper, \$3.00.
- 15929 48681. Sound generation by surface waves considering bottom reflections and velocity of sound in water as function of depth, USSR [with bibliography]; by L. M. Brekhovskikh, et al. Aug. 25, 1969. cover title, 9 p. 4° [From Iz ak nauk SSSR, fizika atmosfery i okeana, v. 5, no. 6, 1969.] Φ Paper, \$3.00.
- 15930 48682. Scientists investigate wave motion problems, USSR [articles, with bibliographies]. Aug. 25, 1969. cover title, a+24 p. il. 4° Φ Paper, \$3.00.
- 15931 48687. Eddy formation and boundary layer in fish locomotion, USSR [with bibliography]; by Yu. G. Alejev, et al. Aug. 26, 1969. cover title, 14 p. il. 4° [From Zoologicheskij zhurnal, v. 47, no. 6, 1969.] Φ Paper, \$3.00.
- 15932 48688. Planning, financing in Soviet public health, USSR; by V. V. Golovtseyev. Aug. 26, 1969. cover title, 7 p. 4° [From Zdravookhraneniye rossiyskoy federatsii, June 1969.] Φ Paper, \$3.00.
- 15933 48692. Scientific progress in Lithuanian SSR surveyed; by A. Zhukauskas. Aug. 26, 1969. cover title, 8 p. 4° [From Kommunist, no. 6, 1969.] Φ Paper, \$3.00.
- 15934 48697. New principle in training and primary specialization of physicians, USSR; by S. Ya. Chikin. Aug. 27, 1969. cover title, 7 p. 4° [From Zdravookhraneniye rossiyskoy federatsii, no. 5, 1969.] Φ Paper, \$3.00.
- 15935 48698. Information robots and manipulators, USSR [excerpts]; by G. P. Katys, et al. Aug. 27, 1969. cover title, a+36 p. il. 4° [From Informatsionnyye roboty i manipulyatory, Energiya Press, 1968.] Φ Paper, \$3.00.
- 15936 48701. Cybernetics methods in chemistry and chemical technology, USSR [excerpts, with bibliography]; by V. V. Kafarov. cover title, a+63 p. 4° [From Metody kibernetiki v khimii i khimicheskoy tekhnologii, 1968.] Φ Paper, \$3.00.
- 15937 48706. Investigation of structure of intraphage DNA with use of dyes, USSR [with bibliography]; by V. I. Permogorov, et al. Aug. 28, 1969. cover title, 13 p. il. 4° [From Molekulyarnaya biologiya, no. 2, 1969.] Φ Paper, \$3.00.
- 15938 48707. Certain problems of chemical therapy in virus infections, USSR [with bibliography]; by G. A. Galegov. Aug. 28, 1969. cover title, 14 p. 4° [From Voprosy virusologii, no. 2, 1966.] Φ Paper, \$3.00.
- 15939 48712. Ukrainian scientists work for the people, USSR; by B. Ye. Paton. Aug. 28, 1969. cover title, 4 leaves, 4° [From Ogonyok, no. 22, May 1969.] Φ Paper, \$3.00.
- 15940 48724. Components for functional synthesis of radio engineering microelectronic equipment, USSR [article, with bibliography]; by L. N. Kolesov. Sept. 2, 1969. cover title, 19 p. il. 4° [From Izvestiya Vuzov SSR, radio-elektronika, Apr. 1969.] Φ Paper, \$3.00.
- 15941 48743. Viscosity of liquid beryllium, USSR [with bibliographies]; by I. V. Milov, et al. Sept. 3, 1969. cover title, 4 leaves, 4° [From Izvestiya Akademii Nauk SSSR, metal, no. 4, 1969.] Φ Paper, \$3.00.
- 15942 48744. Recent proceedings of USSR Academy of Agricultural Sciences [articles]. Sept. 3, 1969. cover title, a+94 p. 4° [From Vestnik sel'skokhozyaystvennoy nauki, May 1969.] Φ Paper, \$3.00.
- 15943 48748. Toxic agents, USSR [with bibliography]; by V. N. Aleksandrov. Sept. 4, 1969. cover title, a+c+185 p. 4° Φ Paper, \$3.00.
- 15944 48749. Three-component marine magnetometer, USSR [excerpts, with bibliographies]; by N. N. Karnausechnko. Sept. 4, 1969. cover title, 16 p. il. 4° [From Elektromagnitnyye yavleniya v more, Naukova Dumka Press, 1968.] Φ Paper, \$3.00.
- 15945 48753. Physics of the atmosphere and ocean, USSR [articles]. Sept. 4, 1969. cover title, a-b+140 p. il. 4° [From Izvestiya Ak Nauk SSR, Fizika atmosfery i okeana, Apr. 1969.] Φ Paper, \$3.00.
- 15946 48762. Effectiveness of science and its achievements, USSR [articles]. Sept. 5, 1969. cover title, a+23 p. 4° Φ Paper, \$3.00.
- 15947 48767. Interaction in biological systems, USSR [with list of recommended reading]; by Yu. M. Vasil'yev, et al. Sept. 8, 1969. cover title, 33 p. il. 4° [From Priroda, no. 6, 1969.] Φ Paper, \$3.00.
- 15948 48774. Improvement of existing and creation of new instruments for seismic stations, USSR [excerpts with bibliography]; by Ye. S. Borisovich, et al. Sept. 9, 1969. cover title, 14 p. il. 4° [From Nauka Press, 1966.] Φ Paper, \$3.00.
- 15949 48780. Echolocation in common dolphin (Delphinus delphis), USSR [with bibliography]; by V. M. Bel'kovich, et al. Sept. 10, 1969. cover title, 12 p. il. 4° [From Zoologicheskij zhurnal, June 1969.] Φ Paper, \$3.00.
- 15950 48798. Evaluation of prophylactic activity of anti-influenza drug amantidine, USSR; by A. A. Smorodintsev, et al. Sept. 12, 1969. cover title, 5 leaves, 4° [From Vrachebnoye delo, no. 7, 1969.] Φ Paper, \$3.00.
- 15951 48799. Medical research and scientific work, USSR [articles]. Sept. 12, 1969. cover title, a+9 p. 4° [From Melitsinskaya gazeta, Apr. 11, 29, and July 4, 1969.] Φ Paper, \$3.00.
- 15952 48800. Diffraction of cylindrical hydro-acoustical wave at junction of 2 semi-infinite plates, USSR [with bibliography]; by D. P. Kouzov. Sept. 12, 1969. cover title, 15 p. il. 4° [From Prikladnaya matematika i mekhanika, v. 33, no. 2, 1969.] Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15953 48801. Translations from automation and telemechanics, USSR [articles, with bibliography]. Sept. 12, 1969. cover title, a+33 p. il. 4° [From Avtomatika i telemekhanika, no. 4, 1969.] Φ Paper, \$3.00.
- 15954 48803. Methods of analyzing organophosphorus insecticides (trichlorometaphos and carbophos) in aerosol containers and in air, USSR [with bibliography]; by G. G. Gonskaya, et al. Sept. 12, 1969. cover title, 5 leaves, 4° [From Trudy Tsentral'nogo Nauchnoissledovatel'skogo Dezinfektsionnogo Instituta, no. 18, pt. 3, 1967.] Φ Paper, \$3.00.
- 15955 48804. Comments on scientific-technical revolution, USSR, Sept. 12, 1969. cover title, 9 p. 4° [From Nauchnotekhnicheskoye obshchestvo SSSR, no. 7, 1969.] Φ Paper, \$3.00.
- 15956 48807. Scientific-research institutes and their work, USSR [articles]. Sept. 15, 1969. cover title, a+16 p. 4° [From various Russian language newspapers.] Φ Paper, \$3.00.
- 15957 48810. Studies on tetanus immunity in USSR population, USSR [with bibliography]; by B. D. Bychenko, et al. Sept. 15, 1969. cover title, 7 p. il. 4° [From Zhurnal mikrobiologii, epidemiologii i immunobiologii, July 1969.] Φ Paper, \$3.00.
- 15958 48820. Inadequacies of Soviet radio terminology discussed; by V. F. Pchelkin, et al. Sept. 16, 1969. cover title, 4 leaves, 4° [From Radiotekhnika, no. 7, July 1969.] Φ Paper, \$3.00.
- 15959 48821. Central Institute for advanced training of physicians, USSR [articles]. Sept. 16, 1969. cover title, a+9 p. 4° [From Meditsinskaya gazeta, May 20, 1969.] Φ Paper, \$3.00.
- 15960 48824. D. I. Mendeleev's periodic law and electronic structure of atoms, USSR; by A. P. Dolgushin. Sept. 16, 1969. cover title, 7 p. 4° [From Priroda, no. 4, 1969.] Φ Paper, \$3.00.
- 15961 48825. Selections on quantum magnetometry USSR [with bibliography]; by N. M. Pomerantsev, et al. Sept. 16, 1969. cover title, a+88 p. il. 4° [From Geofizicheskaya apparatura, Nedra Publishing House, Leningrad, 1967.] Φ Paper, \$3.00.
- 15962 48837. Modelling the mechanism of generation of respiratory rate [with bibliography]; by A. B. Kogan, et al. Sept. 17, 1969. cover title, 7 p. il. 4° [From Biofizika, v. 14, no. 4, 1969.] Φ Paper, \$3.00.
- 15963 48838. Function of etenoid apparatus of fish in presence of turbulent boundary layer, USSR [with bibliography]; by V. D. Burdak. Sept. 17, 1969. cover title, 4 leaves, 4° [From Zoologicheskiiy zhurnal, v. 48, no. 7, 1969.] Φ Paper, \$3.00.
- 15964 48843. Diagrams and specifications of Soviet trestle cranes, USSR, Sept. 17, 1969. cover title, 40 p. il. 4° [From Krany dlya stroitel'nomontazhnykh i pogrupochno-razgrupochnykh rabot.] Φ Paper, \$3.00.
- 15965 48851. Siberian Division of USSR Academy of Sciences [articles]; by N. A. Trubitsyn. Sept. 18, 1969. cover title, 12 p. 4° [From Sovetskiiy rayon, Akademgorodok, Novosibirsk-Moscow, 1961.] Φ Paper, \$3.00.
- 15966 48858. Life support systems in high-altitude and space flights, USSR, Sept. 19, 1969. cover title, a+135 p. il. 4° [Chapters from book by D. I. Ivanov and A. I. Khromushkin, Moscow, Machine Building Publishing House, 1968.] Φ Paper, \$3.00.
- 15967 48860. Scientists approach sources of life, USSR; by A. Turov. Sept. 19, 1969. cover title, 5 leaves, 4° [From Izvestiya, July 17, 1969.] Φ Paper, \$3.00.
- 15968 48867. Public health work of government and research organizations, USSR [articles]. Sept. 22, 1969. cover title, a+29 p. 4° Φ Paper, \$3.00.
- 15969 48876. Ukrainian Academy of Sciences [articles]. Sept. 23, 1969. a+38 p. 4° Φ Paper, \$3.00.
- 15970 48888. Interferons and interferonogens, USSR [with bibliographies]. Sept. 24, 1969. cover title, a+32 p. 4° [Selections from v. 10, 1967.] Φ Paper, \$3.00.
- 15971 48890. USSR Academy experiments with electronic techniques [articles, with bibliographies]. Sept. 24, 1969. cover title, a+19 p. il. 4° [From Doklady Akademii Nauk SSSR, no. 3, 1969. Erratum, 4 leaves, issued also.] Φ Paper, \$3.00.
- 15972 48896. Electric power supply systems, USSR; A. A. Fedorov, et al. Sept. 24, 1969. cover title, a-b+94 p. 4° [Sections 1-18 of Chapter 11 of v. 1 from Spravochnik energetika promyshlennyykh predpriyatiy, State Power Engineering Press, Moscow-Leningrad, 1961.] Φ Paper, \$3.00.
- 15973 48918. Philosophical basis for subject matter of bionics, USSR; [by S. N. Smirnov]. Sept. 29, 1969. cover title, 11 p. 4° [From Filosofskiiye Nauki, no. 4, 1969.] Φ Paper, \$3.00.
- 15974 48919. Hydrodynamic hypothesis of school formation, USSR [with bibliography]. Sept. 29, 1969. cover title, 13 p. il. 4° [From Voprosy ikhtiologii, v. 9, no. 4, Dec. 1968.] Φ Paper, \$3.00.
- 15975 48921. Measuring electrical conductivity of air in free atmosphere from aircraft, USSR [with bibliography]; by S. I. Zachek. Sept. 29, 1969. cover title, 35 p. il. 4° [From Trudy Glavnoy Geofizicheskoy Observatorii imeni A. I. Voyeykova, no. 157, 1964.] Φ Paper, \$3.00.
- 15976 48922. Tempo of scientific-technical progress reviewed, USSR, Sept. 29, 1969. cover title, 8 p. 4° [From Horizont, no. 33, Aug. 1969.] Φ Paper, \$3.00.
- 15977 48934. Electric power supply system (conclusion), electric power receivers and electrical equipment of certain branches of industry, USSR [excerpts]; by A. A. Fedorov et al. Sept. 30, 1969. cover title, a+5 p. 4° [From Spravochnik energetika promyshlennyykh predpriyatiy, secs. 7 and 8, chap. 35, 1961] Φ Paper, \$3.00.

For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

Page 63

GOVERNMENT PUBLICATIONS

JPRS (Series)—Continued

- 15978 48957. Microcontrol and diagnosis of malfunctions in digital computers, USSR [with bibliography]; by A. F. Volkov, et al. Oct. 2, 1969. cover title, 7 p. il. 4° [From Doklady Akademii Nauk SSSR, no. 4, 1969.] Φ Paper, \$3.00.
- 15979 48958. Frequency method of range findings, USSR [excerpt] by Yu. M. Kazarinova. Oct. 2, 1969. cover title, 15 p. il. 4° [From Radiotekhnicheskiye sistemy, 1968.] Φ Paper, \$3.00.
- 15980 48971. Papers presented at IFAC [International Federation of Automatic Control] session in Warsaw, June 16-21, 1969. USSR [with bibliographies]. Oct. 3, 1969. cover title, a+57 p. il. 4° Φ Paper, \$3.00.
- 15981 49009. Academy of Sciences of Belorussian SSR, outline of its history and activities [with bibliography]; by V. F. Kuprevich. Oct. 10, 1969. cover title, 203 p. il. 4° [From Akademiya Nauk Belorusskov SSR; Ocherk istorii i deyatelnosti, 1968.] Φ Paper, \$3.00.
- 15982 49010. Selections from Soviet metals journal [articles with bibliographies]. Oct. 9, 1969. cover title, a+16 p. il. 4° Φ Paper, \$3.00.
- 15983 49015. Socialism speeds scientific and technical progress, USSR; by M. Million-shchikov. Oct. 9, 1969. cover title, 7 p. 4° [From Izvestiya, Sept. 4, 1969.] Φ Paper, \$3.00.
- 15984 49025. Physics of high-temperature plasmas, USSR; by L. A. Artsimovich. Oct. 10, 1969. cover title, 24 p. il. 4° [From Priroda, no. 8, Aug. 1969.] Φ Paper, \$3.00.
- 15985 49052. Cybernetics, regulation theory and mathematics, USSR [articles, with bibliographies]. Oct. 14, 1969. cover title, a+9 p. 4° [From Doklady Akademii Nauk SSSR, v. 187, no. 5, 1969.] Φ Paper, \$3.00.
- 15986 49054. Research on endemic viral infections, USSR [papers, with bibliographies]; by M. P. Chumakov. Oct. 14, 1969. cover title, a-b+61 p. 4° Φ Paper, \$3.00.
- 15987 49055. Model of culture as system of games, USSR; by Stanislaw Lem. Oct. 14, 1969. cover title, 17 p. 4° [From Voprosy filosofii, no. 8, 1969.] Φ Paper, \$3.00.
- 15988 49060. High-temperature superconductivity problems, USSR; by V. L. Ginzburg. Oct. 15, 1969. cover title, 16 p. il. 4° [From Priroda, no. 7, July 1969.] Φ Paper, \$3.00.
- 15989 49081. Mathematical model of nerve cell (standard neuron). USSR [with bibliography]; by G. L. Areshyan, et al. Oct. 17, 1969. cover title, 17 p. il. 4° [From Biologicheskii zhurnal armenii, v. 12, no. 7, Mar. 1969.] Φ Paper, \$3.00.
- 15990 49083. Generalization of visual stimuli as example of solution of abstract problems by bees, USSR [with bibliography]; by G. A. Mazokhin-Porshnyakov. Oct. 17, 1969. cover title, 20 p. il. 4° [From Zoologicheskii zhurnal, v. 48, no. 8, 1969.] Φ Paper, \$3.00.
- 15991 49084. Effects of engineering psychology, technical progress examined, USSR [conference report.] Oct. 20, 1969. cover title, 17 p. 4° [From Rabochay gazeta, June 24, 1969.] Φ Paper, \$3.00.

JUSTICE DEPARTMENT

Washington, DC 20530

- 15992 Financial guide for administration of planning and action grants, title 1, Omnibus crime control and safe streets act of 1968. [May 1969.] cover title, [1]+vi+1-52b, 53-146 p. 4° (Law Enforcement Assistance Administration [Office of Law Enforcement Programs].) [Issued in loose-leaf form with marginal index tabs.] † ● Item 717-A J 1.8/2: F 49
- 15993 Opportunities for attorneys. Tax Division, Department of Justice. [1968.] [1] p. il. 4° (Tax Division.) † ● Item 717 J 1.2: At 8/3/968-2

LABOR DEPARTMENT

Washington, DC 20210

- 15994 Assessing the economic scene. 1969. iii+21 p. il. (Manpower Administration.) † ● Item 745 L 1.2: Ec 7/2
- 15995 Audit guide for Manpower Administration contracts. Sept. 1969. [1]+iii+54 p. 4° (Office of Assistant Secretary of Administration.) † ● Item 745-A L 1.7/2: Au 2
- 15996 Excerpts from an address by Assistant Secretary of Labor Arthur A. Fletcher before West Coast Regional Meeting, National Association for Advancement of Colored People, Asilomar, Calif., Sept. 20, 1969. 8 leaves. 4° (USDL 10-688.) † L 1.13: F 63
- 15997 Job program, assault on hard-core jobless problems. [1969.] [8] p. il. narrow 8° (Manpower Administration.) * Paper, 15c. ● Item 745 L 1.2: J 57/5

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15998 Manpower in social and economic policy, remarks by Secretary of Labor George P. Shultz, before Interstate conference of employment security administrator, New York, Sept. 29, 1969. 1969. 13 leaves, 4° (USDL-10-710.) † L 1.13: Sh 9/7

Manpower research monograph.

- 15999 11. Occupational licensing and supply of nonprofessional manpower; [written by Karen Green]. 1969. iv + [1] + 57 p. il. 4° * Paper, 60c. ● Item 746-H L 1.39/3: 11
L.C. card 77-604116

- 16000 Multi-troubled jobseeker, case of jobless worker with convulsive disorder; [prepared by Donald S. Frank, assisted by Charles R. Johnakin. May 1969. [1] + ii + 24 p. il. 4° ([Manpower Administration.]) [Contract S2-09-66-28. Contains copyright material.] ‡ L 1.2: M 91

- 16001 Occupational analysis of computers in medical sciences [with bibliography]. June 1969. vi + 90 p. il. (Manpower Administration.) * Paper, 45c. ● Item 745
L.C. card 74-604055 L 1.2: C 73/2

Occupational guide.

- 16002 1. Optometry [with bibliography]. [1969.] [4] p. 5 cards in pocket, oblong 32° † (Manpower Administration.) ● Item 745-C L 1.7/5: 1

- 16003 Remarks by Secretary of Labor George P. Shultz before AFL-CIO 8th constitutional convention, Atlantic City, N.J., Oct. 2, 1969. [1969.] 14 leaves, 4° (USDL-10-720.) † L 1.13: Sh 9/8

- 16004 Supervising the hard core, some management guidelines, 1969. [1969.] [1] + 7 p. (Manpower Administration.) ‡ L 1.7/2: Su 7

- 16005 Time to serve them, employ/re-employ veterans. [Revised 1969.] [1969.] [6] p. il. narrow 8° ([Manpower Administration.]) † ● Item 745
L 1.2: V 64/2

- 16006 United States & International Labor Organization; [by Richard Conn]. [1969.] [29] p. 4° † ● Item 745 L 1.2: In 85 1/3

LABOR STANDARDS BUREAU, Labor Dept.
Washington, DC 20210

Bulletins.

L 16.3: (nos.)

- 16007 240. Rigging cargo gear; [prepared by Ralph W. Netterstrom]. Revised 1969. [1969.] [2] + 29 p. il. (Safety in industry, mechanical and physical hazards series.) * Paper, 25c. ● Item 763
L.C. card 70-603795

- 16008 255. Using injury statistics. [1969.] cover title, iii + 20 p. il. (Safety in industry; Organization and administration series.) * Paper, 15c.

- 16009 Gear certification regulations. July 1969. cover title, 51 p. † ● Item 766-D L 16.6: G 26

Occupational safety aids, Department of Labor safety training programs
LS-(series).

- 16010 502. Preventing injury from falls and falling objects. [1969.] [4] p. il. 4° (OOS 6.69.) * Paper, 10c. ● Item 765-G L 16.49: 502

- 16011 Review of State labor laws enacted in 1968; [by] Clara T. Sorenson. [1969.] 6 p. 4° [From Monthly labor review, Jan. 1969.] † L 2.6/a: L 524/968

LABOR STATISTICS BUREAU, Labor Dept.
Washington, DC 20210

BLS report.

- 16012 342. Injury rates, by industry, 1966 and 1967. [1969.] 26 p. il. 4° † ● Item 767-G L.C. card L 64-70 L 2.71: 360

Bulletins. ● Item 768

L 2.3: (nos.)

- 16013 1625-74. Area wage survey: Providence-Pawtucket-Warwick, R.I., Mass., metropolitan area, May 1969. Aug. 1969. ii + 28 p. oblong 8° * Paper, 35c. L.C. card L 66-144

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 65

GOVERNMENT PUBLICATIONS

Bulletins—Continued

- 16014 1625-75. Area wage survey: Beaumont-Port Arthur-Orange, Tex., metropolitan area, May 1969, Aug. 1969, iii+27 p. oblong 8° * Paper, 35c.
L.C. card L 66-133
- 16015 1625-76. Area wage survey: Portland, Oreg.-Wash., metropolitan area, May 1969, Aug. 1969, iii+17 p. oblong 8° * Paper, 30c.
L.C. card L 66-161
- 16016 1625-77. Area wage survey: Atlanta, Ga., metropolitan area, May 1969, Sept. 1969, iv+25 p. oblong 8° * Paper, 35c.
L.C. card L 66-140
- 16017 1625-78. Area wage survey: Los Angeles, Long Beach and Anaheim, Santa Ana, Garden Grove, Calif., metropolitan area, Mar. 1969, Sept. 1969, iv+43 p. oblong 8° * Paper, 50c.
L.C. card L 66-126
- 16018 1625-79. Area wage survey: Lawrence-Haverhill, Mass.-N.H., metropolitan area, June 1969, Sept. 1969, iii+13 p. oblong 8° * Paper, 30c.
L.C. card L 66-155
- 16019 1625-80. Area wage survey: Muskegon-Muskegon Heights, Mich., metropolitan area, May 1969, Sept. 1969, iii+15 p. oblong 8° * Paper, 30c.
L.C. card L 66-158
- 16020 1625-81. Area wage survey: Spokane, Wash., metropolitan area, June 1969, Sept. 1969, iii+15 p. oblong 8° * Paper, 30c.
L.C. card L 66-162
- 16021 1625-83. Area wage survey: Houston, Tex., metropolitan area, May 1969, Sept. 1969, iv+35 p. oblong 8° * Paper, 45c.
L.C. card 66-62759
- 16022 1625-84. Area wage survey: Worcester, Mass., metropolitan area, May 1969, Sept. 1969, iii+16 p. oblong 8° * Paper, 30c.
L.C. card 66-62947
- 16023 1625-85. Area wage survey: San Antonio, Tex., metropolitan area, June 1969, Sept. 1969, iii+25 p. oblong 8° * Paper, 35c.
L.C. card L 66-152
- 16024 1634. Industry wage survey: Footwear, Mar. 1968; [prepared by Charles M. O'Connor], July 1969, vi+75 p. 4° * Paper, 75c.
L.C. card L 54-111
- 16025 1635. Labor in textile and apparel industries, Aug. 1969, ix+99 p. 4° * Paper, \$1.00.
L.C. card 77-604088
- 16026 Changing patterns of work and workers in urban setting, Apr. 1969, [1]+24 p. il. 4° (Middle Atlantic Region.) ‡ L 2.92 :W 89/2/969
- 16027 Some facts relating to changing patterns of costs and structure in health sector; prepared for presentation by Herbert Bienstock, Regional Director, Conference on Education in Health-Related Professions, New York Academy of Sciences, New York, N.Y., Mar. 28, 1969, [1969.] [1]+13 leaves, il. 4° (Middle Atlantic Region.) ‡ L 2.92 :H 34/2/969
- 16028 Some facts relating to changing patterns of employment, income, and living standards in New York City, Apr. 1968, [1]+27 p. il. 4° (Middle Atlantic Region.) ‡ L 2.92 :N 42y/5/969
- 16029 Some facts relating to employment and unemployment in New York, Feb. 1969, [1]+34 p. il. 4° (Middle Atlantic Region.) ‡ L 2.92 :N 42y/3/969
- 16030 Transition from school to work in selected countries [with list of bibliographic references; by Franz A. Groemping], [Aug. 1969.] [1]+ii+57 p. 4° † L.C. card 70-604046 L 2.2 :Sch 6/4
- 16031 Wage trends for occupational groups in metropolitan areas, Nov. 1967-Nov. 1968, Oct. 1969, 4 p. 4° † L.C. card 68-62434 L 2.86/2 : 967-68-3

LAKE SURVEY (Army), Defense Dept. 630 Federal Bldg., Detroit, MI 48226

- 16032 Supplement 5, Sept. 1969, corrections and additions to 1969 Great Lakes pilot, [1969.] [2] p.+10 leaves [Bearings are true and distances are expressed in statute miles. Supplements information given upon charts published by Lake Survey.] † U.S. Army Engineer District, Lake Survey, Corps of Engineers, 630 Federal Building, Detroit, MI 48226
D 103.203 : 969/supp.5

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

LIBRARY OF CONGRESS
Washington, DC 20540

- 16033 Accessions list: India, annual supplement, cumulative list of serials, 1969. 1969, cover title, [2]+453 p. 4° (Public law 480 project, American Libraries Book Procurement Center, New Delhi.) † (Libraries only)
L.C. card 63-24164 LC 1.30/1-2: 969
- 16034 Cards, books, and records from Library of Congress. 1969. [12] p. il. narrow 8° †
LC 1.2: C 17
- 16035 Elliot Snow, Leonard F. Cushing, register of their papers in Library of Congress. 1969. [3] p.+ [13] leaves, 4° (Naval Historical Foundation Collection; Reference Department, Manuscript Division.) † Library of Congress, Manuscript Division, Washington, DC 20540
L.C. card 76-603341 LC 4.2: Sn 6
- 16036 Geography and Map Division, new location. [1969.] [4] p. il. narrow 8° †
LC 5.2: G 29/2
- 16037 George Eugene Belknap, Reginald Rowan Belknap, register of their papers in Library of Congress. 1969. [3] p.+5+8 leaves, 4° (Naval Historical Foundation Collection; Reference Department, Manuscript Division.) † Paper, Manuscript Division, Library of Congress, Washington, DC 20540
L.C. card 77-603257 LC 4.2: B 41
- 16038 Library of Congress catalog, music and phonorecords, cumulative list of works represented by Library of Congress printed cards, 1968. 1969. v+676 p. 4° † Paper, \$20.00 (including semiannual issue and annual cumulation).
L.C. card 53-60012 LC 30.8/6: 968/2
- 16039 National union catalog, cumulative author list representing Library of Congress printed cards and titles reported by other American libraries: Register of additional locations, 1968; [compiled and edited by Catalog Maintenance and Catalog Publications Division]. 1969. xiii+929 p. 4° (Library of Congress catalogs.) [Supplement to National union catalog.] † (Included in subscription to National union catalog. See Entry no. 3170, Feb. 1969 Monthly catalog.)
L.C. card 56-60041 LC 30.8/7: 968
- 16040 Thomas Oliver Selfridge, sr., Thomas Oliver Selfridge, jr., register of their papers in Library of Congress, 1969. [3] p.+8+7 leaves, 4° (Naval Historical Foundation Collection; Reference Department, Manuscript Division.) † Paper, Manuscript Division, Library of Congress, Washington, DC 20540
L.C. card 70-603258 LC 4.2: Se 1/2

MARINE CORPS (Navy), Defense Dept.
Washington, DC 20350

Fleet Marine Force manual FMFM (series).

- 16041 2-2. Amphibious reconnaissance [with list of references]. [1969.] [3]+iv+79 p. il. 4° [Issued with perforations. Supersedes FMFM 2-2, Dec. 12, 1963, with Changes 1 and 2.] * Paper, \$1.25. ● Item 384 D 214.9/4: 2-2/2
- 16042 History of U.S. Marine Corps operations in World War II: v. 5, Victory and occupation; by Benis M. Frank, Henry I. Shaw, jr. 1968 [published 1969]. xiii+945 p. il. 11 maps attached to inside of back cover, large 8° (Historical Branch, G-3 Division, Headquarters.) * Cloth, \$11.75.
● Item 383-B
L.C. card 58-60002 D 214.13: W 89/v.5
- Manuscript register series. (Marine Corps Museum, Quantico, Va.)
- 16043 1. Register of Henry Clay Cochrane papers 1809-1957 and undated [with list of sources and references]; by C. F. W. Coker. 1968. [1]+86 p. [Text on p. 2 of cover.] †
L.C. card 75-604023 D 214.17: 1

GOVERNMENT PUBLICATIONS

Marine Corps historical reference bibliography. (Historical Branch, G-3 Division.)

- 16044 Annotated bibliography of United States Marine Corps' concept of close air support, Change sheets, May 29, 1969. [1]+19-22 p. 4° † D 214.15: A1 7/ch.sh.

Marine Corps historical reference pamphlet. (Historical Branch, G-3 Division.)

- 16045 United States Marines in occupation of Japan [with list of notes; by Henry I. Shaw, jr.] [1961; revised 1962.] Reprinted 1969. cover title, [2] leaves+29 p. ll. 4° [Maps on p. 2 and 3 of cover.] †
L.C. card 73-603970 D 214.14/2: J 27/969

- 16046 Occupational opportunities, United States Marine Corps. [1969.] 40 p. ll. oblong 32" ([NAVMC 6992 (1-69).]) † ● Item 383

D 214.2: Oc 1/969

MARITIME ADMINISTRATION, Commerce Dept.

Washington, DC 20548

- 16047 Annual report [fiscal year] 1968, of Maritime Administration. [1969.] vi+90 p. ll. * Paper, 45c. ● Item 233
L.C. card 63-60652 C 39.201: 968

MA SP (series). † C 39.210/2: (nos.)

- 16048 69-14. Outlook for U.S. shipbuilding, remarks by Roy G. Bowman, General Counsel of Maritime Administration, Department of Commerce, before Metal Trades Dept., AFL-CIO convention, Atlantic City, N.J., Sept. 25, 1969. 1969. 5 p. 4° ([US COMM-DC 43194.])
- 16049 69-16. Crisis and opportunity, remarks by A. E. Gibson, Maritime Administrator, Department of Commerce, before American Merchant Marine Conference, Oct. 15, 1969. 1969. 5 p. 4° ([US COMM DC 43246.])
- 16050 69-17. Ports of Philadelphia, a look to the future, remarks by Robert J. Blackwell, Deputy Maritime Administrator, Department of Commerce, at Ports of Philadelphia Day Luncheon, Philadelphia, Pa., Oct. 17, 1969. [1969.] 6 p. 4° ([US COMM DC 43247.])

- 16051 Merchant type ships of 100,000 tons deadweight and over including those in operation and those under construction or on order, as of Dec. 31, 1968; prepared by Office of Government Aid, Division of Trade Studies. Aug. 11, 1969. [1]+18 leaves, oblong 8° † C 39.202: Sh 64/12/968

- 16052 New ship construction: pt. 1, Deliveries during 1967, pt. 2 Under construction and on order as of Dec. 31, 1967, oceangoing ships of 1,000 gross tons and over in United States and foreign shipyards; [prepared by Althea W. Roberts and James L. White]. July 1, 1968. 15 p. oblong large 8° (Report MAR-560-21.) [Includes list of sources.] †
C 39.212/3: 967

- 16053 — pt. 1, Deliveries during 1968, pt. 2, Under construction and on order as of Dec. 31, 1968, oceangoing ships of 1,000 gross tons and over in United States and foreign shipyards; [prepared by Althea W. Roberts and James L. White]. Aug. 1, 1969. 15 p. oblong large 8° (Report MAR-560-21.) [Includes list of sources.] † C 39.212/3: 968

- 16054 Report on experimental export shipment of cotton in containers. July 21, 1969. [9] leaves, 4° † C 39.202: C 82

MEDICINE AND SURGERY BUREAU (Navy), Defense Dept.

Washington, DC 20350

- 16055 Annotated bibliography of reports issued by Naval Aerospace Medical Institute, Pensacola, Fla., Jan. 1, 1964-July 1, 1968; [compiled by Catherine F. Kasperek and Christine E. Turner]. June 30, 1969. cover title, ii-v 112+2 p. 4° †
L.C. card 72-604068 D 206.20: N 22/964-68

- 16056 Manual of Medical Department, Change 52; Aug. 12, 1969. [1969.] [67] p. ll. 4° [Issued in looseleaf form.] † D 206.8/2: 952/ch.52

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

Naval Medical Field Research Laboratory, Camp Lejeune, N.C.: [Report]. ‡ D 206.19:(nos.)

16057 v. 19, no. 1.

Body armor in hot humid environment; pt. 2. Studies in heat acclimatized men [with list of references]; by W. E. Yarger, and B. D. Litt, R. F. Goldman, Jan. 1969, v+42+[4] p. 4° (Work unit MF 12.524.007-8008.2.)

16058 v. 19, no. 6.

Effect of protein dietary supplementation on physical performance of Marine Corps officer candidates [with list of references] by Philip J. Rasch, J. W. Haubly, and H. J. Burns, jr, Mar. 1969, v+21+2+[2] p. 4° (Work unit MF 12.524.009-8006B.1.)

Navy Medical Neuropsychiatric Research Unit, San Diego, Calif.: Reports. ‡ D 206.21:(nos.)

16059 67-9, 67-11.

Set of programs for computing multiple correlations and related statistics [with list of references: by] Cyril H. Nute, Donald D. Beck; Two analysis-of-variance programs for disproportionate cell frequencies [with list of references, by] Cyril H. Nute, Ardie Lubin, Donald D. Beck. [1969.] cover title, [8]+26+12+[4] p. 4°

16060 67-29.

Predicting academic performance of Navy hospital corpsmen [with list of references: by] Laverne C. Johnson, Jo Ann Pollard, [and] John A. Plag. [1969.] cover title, [1]+9+[2] p. 4°

U.S. Naval Submarine Medical Center, Submarine Base, Groton, Conn.: Memorandum reports. ‡ D 206.10/2:(nos.)

16061 6S-6. Carbonic anhydrase analysis on blood of subjects exposed to helium-oxygen environments at 7 atmospheres pressure [with list of references]; by Donald V. Tappan and Michael J. Jacey, Apr. 3, 1968, cover title, ii+2+2 p. il. 4° (Research work unit MR005.04-0053.03.)

16062 6S-8. Conservative management of mandibular incisors with large area of bone involvement, report of a case [with list of references]; by John L. Giunta and Bruce W. Wisner, Apr. 16, 1968, cover title, iii+3+2 p. il. 4° (Research work unit MR005.19-6024.02.)

16063 6S-9. Subject acceptance of stannous fluoride treatment [with list of references]; by William R. Shillar and Francis P. Scola, May 14, 1968, cover title, iii+4+2 p. 4° (Research work unit MR 005.19-6041.01.)

16064 6S-10. Portable clinical suction device for use in hyperbaric chambers [with list of references]; by Joel J. Nobel, May 23, 1968, cover title, iv+5+2 p. il. 4° (Research work unit MF011.99-9003.04.)

16065 6S-14. Consideration of some hi-fi earphones for submarine sonar; by Alan M. Richards, July 30, 1968, cover title, iii+5+2 p. il. 4° (Research work unit MF 022.01.04-9004.11.)

— Reports. ‡ D 206.10:(nos.)

16066 575. Relation of ductility to dynamic stereoacuity [with list of references]; by S. M. Luria and Paul R. Kent, Apr. 8, 1969, cover title, iii+7+2 p. il. 4° (Research work unit MF12.524.004-9013D.02.)

16067 578. Personal factors in dental disease prevention: 1. Test to measure dental health knowledge [with list of references]; by William R. Shiller, May 1, 1969, cover title, iii+14+2 p. il. 4° (Research work unit MR005.19-6042.05.)

16068 579. Background and motivational characteristics of medical officer candidates for submarine service [with list of references]; by Rupert Hester and Benjamin B. Weybrew, May 15, 1969, cover title, v+13+2 p. il. 4° (Research work unit MF 12.524.003-9008.01.)

16069 581. Visual acuity under water without a face mask [with list of references]; by S. M. Luria and Jo An S. Kinney, May 19, 1969, cover title, iii+6+2 p. il. 4° (Research work unit MF12.524.004-9014D.03.)

MILITARY HISTORY, OFFICE OF CHIEF OF (Army), Defense Dept.
Washington, DC 20315

16070 Publications of Office Chief of Military History, United States Army, 1969. [2]+23 p. narrow 8° ‡ ● Item 344-B D 114.10:969

16071 United States Army in World War II: Mediterranean theater of operations [v. 3] Salerno to Cassino [with bibliographical note]; by Martin Blumenson, 1969, xvii+491 p. il. 1 pl. in pocket, 8 maps, one is in pocket and 7 are attached to back cover. [One map is colored.] * Cloth, \$9.50. ● Item 345 L.C. card 68-60003 D 114.7: M 46/2/v.3

☐For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 69

GOVERNMENT PUBLICATIONS

MINES BUREAU, Interior Dept.
Washington, DC 20240

- 16072 Antimony; [by L. E. Davis]. [1969.] [2]+8 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: An 87/968
- 16073 Chromium; [by John L. Morning.] [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: C 468/2/968
- 16074 Columbium and tantalum; [by Richard F. Stevens, jr.]. [1969.] [2]+14 p. [Preprint from minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: C 723/968
- 16075 Feldspar, nepheline syenite, and aplite; [by J. Robert Wells.] [1969.] [2]+6 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: F 333/2/968
- 16076 Gem stones; [by Benjamin Petkof.] [1969.] [2]+5 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: G 284/968
- 16077 Gypsum; [by Paul L. Allsman.] [1969.] [2]+8 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: G 998/968
- Information circulars. ● Item 637-A I 28.27:(nos.)
- 16078 S421. Pozzolan raw materials resources in central and western United States [with list of references]; by Staff, Bureau of Mines. [1969.] [2]+iv+117 p. ll. 4° * Paper, \$1.25. L.C. card 70-604089
- 16079 S424. Specifications for selected hydraulic-powered roof supports, with method to estimate support requirements for longwalls [with bibliography]; by A. J. Barry, O. B. Nair, and J. S. Miller. [Sept. 1969.] [3]+15 p. ll. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16080 Mica; [by Benjamin Petkof.] [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: M 581/968
- 16081 Mineral industry of Central American Areas; [by Burton E. Ashley.] [1969.] [2]+16 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: C 333 am/968
- 16082 Mineral industry of Czechoslovakia; [by Bernadette Michalski.] [1969.] [2]+6 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: C 996/968
- 16083 Mineral industry of Ghana; [by Edgar J. Gealy and Agnes J. Doughman.] [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: G 341/968
- 16084 Mineral industry of Israel; [by Walter C. Woodmansee]. [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: Is 7/968
- 16085 Mineral industry of mainland China; [by K. P. Wang.] [1969.] [2]+12 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: C 441/968
- 16086 Mineral industry of Mexico; [by Burton E. Ashley]. [1969.] [2]+10 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: M 574/968
- 16087 Mineral industry of South Korea; [by R. A. Pense and Jean W. Pressler]. [1969.] [2]+9 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: K 841/968
- 16088 Mineral industry of Tunisia; [by Eugene R. Slatiek.] [1969.] [2]+6 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: T 834/968
- 16089 Mineral industry of Zambia; [by E. Shekarchi]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: Z 1/968
- 16090 Minor metals; [by John W. Cole and Richard F. Stevens, jr.]. [1969.] [2]+13 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: M 564/3/968

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16091 Nickel; [by Gilbert L. DeHuff.] [1969.] [2]+11 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: N 532/968
- 16092 Perlite; [by William C. Henkes.] [1969.] [2]+3 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: P 421/968
- Petroleum products survey (series). (Minerals industry surveys.)
- 16093 61. Burner fuel oils, 1969; [by O. C. Blade.] Sept. 1969. cover title, [1]+30 p.+ [5] leaves, il. 4° † Mines Bureau, Pittsburgh, Pa. 15213. ● Item 642-A L.C. card 58-60254 I 28.18/3: 61
- 16094 Phosphate rock; [by Donald E. Eilersten.] [1969.] [2]+11 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: P 566/968
- 16095 Platinum-Group Metals; [by J. Patrick Ryan.] [1969.] [2]+10 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: P 696/968
- 16096 Rare-earth minerals and metals; [by John C. Parker.] [1969.] [2]+8 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: R 182/968
- Report of investigations. ● Item 637-A I 28.23: (nos.)
- 16097 7297. Structural design data for unreinforced concrete tunnel linings [with list of references]; by J. D. Dixon. [Oct. 1969.] [3]+43 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16098 7298. Effect of increasing end constraint on compressive strength of model rock pillars [with list of references]; by Clarence O. Babcock. [Sept. 1969.] [3]+18 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16099 7299. Methods for producing alumina from clay, evaluation of 2 lime sinter processes [with list of references]; by John J. Henn [and others]. [Sept. 1969.] [2]+vi+43 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16100 7300. Drillability studies-laboratory percussive drilling; by James Paone, Dick Madson, and William E. Bruce. [Sept. 1969.] [2]+ii+22 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16101 7301. Extraction of copper from oxide using iron and steel scrap, principles and application to pure systems; by S. E. Khalafalla, H. W. Kilau, and L. A. Haas. [Oct. 1969.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16102 7302. Destructive distillation of scrap tires; by D. E. Wolfson [and others]. [Sept. 1969.] [3]+19 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16103 7304. Radiotracer procedures for mechanistic studies in air pollution research [with list of references]; by M. L. Whisman and Basil Dimitriadis. [Oct. 1969.] [2]+ii+36 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16104 7305. Systems approach to recovering gold resources in Jefferson County, Mont., introductory review [with bibliography]; by Robert W. Age-ton, George T. Krempasky, and William L. Rice. [Oct. 1969.] [2]+iii+16 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16105 7307. Vapor pressures of metal halides, CdCl₂-SnCl₂-ZnCl₂, PbCl₂-SnCl₂, and PbCl₂-ZnCl₂ binary systems [with list of references]; by L. C. George [and others]. [Oct. 1969.] [3]+15 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16106 7315. Refining zinc-base die cast scrap using low-cost fluxes; by D. Montagna and J. A. Ruppert. [Oct. 1969.] [3]+10 p. il. 4° † Mines Bureau, Pittsburgh, PA 15213
- 16107 Talc, soapstone, and pyrophyllite; [by John W. Hartwell]. [1969.] [2]+6 p. [Preprint from minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: T 143/968
- 16108 Tin; [by John R. Lewis.] [1969.] [2]+15 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: T 49/968
- 16109 Titanium; [by John G. Parker.] [1969.] [2]+13 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: T 53/968
- 16110 Tungsten; [by Richard F. Stevens.] [1969.] [2]+14 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: T 834/968

MISSOURI BASIN INTER-AGENCY COMMITTEE

NOTE.—The chairman of the Missouri Basin Inter-Agency Committee for fiscal year 1970 is Brig. Gen. C. Craig Cannon, Division Engineer, U.S. Army Corps of Engineers, P.O. Box 103, Omaha, NB 68101.

- 16111 Directory of Federal and State officials engaged in water resources development, fiscal year 1970. June 1969. cover title, [1]+i+49 p. 1° † L.C. card 68-67208 Y 3.M 69: 2 D 62/970

GOVERNMENT PUBLICATIONS

- 16112 Minutes of 157th meeting, Billings, Mont., June 10-12, 1969; [prepared by Allen L. Fisk]. [1969.] cover title, [80] p. 4° †
L.C. card 57-33283 Y 3.M 69: 2 M 66/969-2
- 16113 Missouri River basin, comprehensive framework study: Streamflow characteristics in western Dakota tributaries, flow-duration, high-flow and low-flow tables for selected stations through 1963; prepared by Work Group on Hydrologic Analyses and Projections. Standing Committee on Comprehensive Basin Planning. June 1967. cover title, iv+134+[1] p. 4° ‡
Y 3.M 69: 2 M 69/2

MOTOR CARRIER SAFETY BUREAU, Transportation Dept. Washington, DC 20591

- Motor carrier accident investigation reports. † TD 2.309:(nos.)
- 16114 69-8. Watkins-Carolina Express, Inc., West Orange, N.J., Apr. 2, 1969, runaway truck collision accident, 11 other vehicles. [1969.] [1]+11 p. il. 4°
- 16115 69-9. Greyhound Lines, Inc., accident of July 9, 1969, Spanish Fort, Ala. [1969.] [1]+9 p. il. 4° TD 2.303:(v.nos.& nos.)
- On guard, Bureau of Motor Carrier Safety bulletin. [Irregular.] †
- 16116 v. 1, no. 1—

NARCOTICS AND DANGEROUS DRUGS BUREAU, Justice Dept. Washington, DC 20530

NOTE.—The Narcotics and Dangerous Drugs Bureau was transferred from the Treasury Department to the Justice Department by Reorganization Plan 1 of 1968, effective Apr. 8, 1968.

- 16117 LSD-25, factual account, layman's guide to pharmacology, physiology, psychology and sociology of LSD [with list of references; by] Louise G. Richards [and others]. June 1969. 36 p. il. 4° [Including copyright material.] * Paper, \$1.00. ● Item 968-A
L.C. card 70-604094 J 24.8: L 99

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, DC 20546

- 16118 Computer program abstracts; [prepared by Technical Information Services Company, NASA Scientific and Technical Information Facility]. ([Office of Technology Utilization].) [Quarterly.] * Paper, \$2.75 a yr., 70c. additional for foreign mailing; single copy, 70c. (except v. 1, nos. 1 and 2, combined issue, priced at \$1.50). ● Item S30-X
NAS 1.44:(v.nos.& nos.)
v. 1, nos. 1 and 2— July 15, 1969—
- Mission report MR—(series).
- 16119 5. Apollo 11. Aug. 14, 1969. 8 p. il. 4° * Paper, 10c. ● Item 830-Y
NAS 1.45: 5
- NASA contractor report CR (series). NAS 1.26:(nos.)
- 16120 1050. Buckling of shells of revolution with various wall constructions: v. 2, Basic equations and method of solution; by D. Bushnell, B. O. Almroth and L. H. Sobel, May 1968, errata. [Oct. 3, 1969.] 3 p. 4° †
- 16121 1365. Synthesis of optimum structural designs for conical and tension shell Mars entry capsules [with list of references]; by Gerald A. Cohen, Richard M. Foster, and James R. Dowty. Aug. 1969. cover title, viii+96 p. il. 4° [Prepared under contract NAS 1-5554-4 by Philco-Ford Corporation, Newport Beach, Calif.] † Paper, \$3.00.
- 16122 1375. Analytical study of contaminant and atmospheric sensor, phase 1. Sept. 1969. cover title, iii+133 p. il. 4° [Prepared under contract NAS 1-7260 by Perkin-Elmer Corporation, Pomona, Calif. Issued by originator as Perkin-Elmer SPO 20224.] † Paper, \$3.00.
L.C. card 78-604013
- 16123 1384. Investigation of basic properties of irradiated polyethylene memory materials [with list of references]; by Preston Keusch, Donald Greer, and John Rozembersky. Sept. 1969. cover title, xii+112 p. il. 4° [Prepared under contract NAS 1-7335 by Rai Research Corporation Long Island City, N.Y. Issued by originator as report RAI 397.] † Paper, \$3.00.

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

NOVEMBER 1969

- 16124 1390. Radiant energy transfer measurements in air [with list of references]; by Allen D. Wood and Kenneth H. Wilson, Oct. 1969, cover title, vii+82 p. il. 4° [Prepared under contract NAS 7-579 by Lockheed Aircraft Corporation, Palo Alto, Calif. Issued by originator as report LMSC-681796.] Φ Paper, \$3.00.
- 16125 1391. Rigid rotor dynamics [with list of references]; by Edgar J. Gunter, jr. and P. DeChoudhury, Aug. 1969, cover title, xi+163 p. il. 4° [Prepared under grant NGR 47-005-050 by Department of Mechanical Engineering, University of Virginia, Charlottesville, Va.] Φ Paper, \$3.00.
- 16126 1399. Experimental verification of surface vehicle dynamics [with list of references]; by B. D. Van Duesen [and others], Sept. 1969, cover title, [143] p. il. 4° [Prepared under contract NASw-1607 by Chrysler Corporation, Detroit, Mich.] Φ Paper, \$3.00.
- 16127 1400. Heat pipe devices for space suit temperature control [with list of references]; by A. P. Shlosinger, Oct. 1969, cover title, v+51 p. il. 4° [Prepared under contract NAS 2-3817 by TRW Systems Group, Redondo Beach, Calif. Issued by originator as report 06462-6005-RO-00.] Φ Paper, \$3.00.
- 16128 1402. Man's capability for self-locomotion on moon: v. 1, Detailed report [with list of references]; by E. C. Wortz [and others], Sept. 1969, cover title, xli+398 p. il. 4° [Prepared under contract NAS 1-7053 by Aircsearch Manufacturing Company, Division of Garrett Corporation, Los Angeles, Calif. Issued by originator as AiResearch report 68-3986, Rev.] Φ Paper, \$3.00.
- 16129 1403. Man's capability for self-locomotion on the moon: v. 2, Summary report [with list of references]; by E. C. Wortz [and others], Sept. 1969, cover title, ix+80 p. il. 4° [Prepared under contract NAS 1-7053 by AiResearch Manufacturing Company, division of Garrett Corporation, Los Angeles, Calif. Issued by originator as AiResearch report 68-4262, rev. 1.] Φ Paper, \$3.00.
- 16130 1405. Study of astronaut's capabilities to maintain life support systems and cabin habitability in weightless conditions [with list of references]; by Harry L. Loats, jr., George M. Hay, and Edwin Morris, Aug. 1969, cover title, viii+166 p. il. 4° [Prepared under contract NAS 1-7887 by Environmental Research Associates, Randallstown, Md. Issued by originator as report ERA 68-1.] Φ Paper, \$3.00.
- 16131 1406. Measurements of negative ion production in atmospheric gases [with list of references], Oct. 1969, cover title, [1]+41 p. il. 4° [Prepared under contract NAS 2-5209 by Dolores E. Ali, Consultant Berkeley, Calif.] Φ Paper, \$3.00.
- 16132 1413. Testing of high-emittance coatings; by R. E. Cleary and C. Ammann, Aug. 1969, cover title, xi+104 p. il. 4° [Prepared under contract NAS 3-10609 by Pratt & Whitney Aircraft, East Hartford, Conn.] Φ Paper, \$3.00.
- 16133 1417. Reduction of recovery time in high-temperature cesium vapor thyatrons [with list of references]; by A. W. Coolidge, jr., Sept. 1969, cover title, v+43 p. il. 4° [Prepared under contract NAS 3-9423 by General Electric Company, Schenectady, N.Y.] Φ Paper, \$3.00.
- 16134 1418. Ground wind characteristics at Kennedy Space Center [with lists of references]; by G. E. McVehil and H. G. Camnitz, Sept. 1969, cover title, x+89+A-11+R-2 p. il. 4° [Prepared under contract NAS 8-21178 by Cornell Aeronautical Laboratories, Inc. Buffalo, N.Y.] Φ Paper, \$3.00.
- 16135 1419. Inference of stratospheric temperature and moisture profiles from observations of infrared horizon [with list of references]; by Frederick B. House and George Ohring, Aug. 1969, cover title, vii+58 p. il. 4° [Prepared under contract NAS 1-7572 by GCA Corporation, Bedford Mass. Issued by originator as report GCA-TR-69-5-N.] Φ Paper, \$3.00.
- 16136 1420. Emissivity coatings for low-temperature space radiators [with list of references]; by G. R. Cunningham, J. R. Grammer, and F. J. Smith, Sept. 1969, cover title, xiii+156 p. il. 4° [Prepared under contract NAS 3-7630 by Lockheed Palo Alto Research Laboratory, Lockheed Missiles & Space Company, Sunnyvale, Calif.] Φ Paper, \$3.00.
- 16137 1423. Experimental investigation in annular cascade sector of highly loaded turbine stator blading: v. 4, Performance of jet-flapped blade [with list of references]; by James L. Bettner, Sept. 1969, cover title, xiv+133 p. il. 4° [Prepared under contract NAS 3-9404 by General Motors, Indianapolis, Ind.] Φ Paper, \$3.00.
- 16138 1431. Comprehensive program for compilation and analysis of thermal radiative properties data [with list of references]; by D. P. DeWitt, M. C. Muinzer, and R. S. Hienicz, Sept. 1969, cover title, vii+121 p. il. 4° [Prepared under contract NSR-15-005-037 by Thermophysical Properties Research Center, Purdue University, West Lafayette, Ind.] Φ Paper, \$3.00.
- 16139 1432. Toward theory of fuzzy systems [with bibliography]; by L. A. Zadeh, Sept. 1969, cover title, v+36 p. 4° [Prepared under grant MGL-05-003-016 by Electronics Research Laboratory, University of California, Berkeley, Calif. Issued by originator as report ERL-69-2.] Φ Paper, \$3.00.

Φ For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 73

GOVERNMENT PUBLICATIONS

NASA contractor reports CR (Series)—Continued

- 16140 1433. Nitinol characterization study [with list of references]; by William B. Cross, Anthony H. Kariotis, and Frederick J. Stimler. Sept. 1969. cover title, xii+60 p. il. 4° [Prepared under contract NAS 1-7522 by Good-year Aerospace Corporation, Akron, Ohio. Issued by originator as report GER-14188.] Φ Paper, \$3.00.
- 16141 1434. Electrochemical characterization of nonaqueous systems for secondary battery applications [with list of references]; by Manny Shaw, O. A. Paez, and Frank A. Ludwig. Sept. 1969. cover title, xvi+214 p. il. 4° [Prepared under contract NAS 3-8509 by Whittaker Corporation, San Diego, Calif.*] Φ Paper, \$3.00.
L.C. card 71-603837
- 16142 1435. Development and inverter testing of high-temperature cesium-vapor thyatrons [with list of references]; by A. W. Coolidge, jr. Sept. 1969. cover title, v+43 p. il. 4° [Prepared by General Electric Company, Schenectady, N.Y., under contract NAS 3-9423.] Φ Paper, \$3.00.
- 16143 1436. Mechanical behavior of tantalum-base T-111 alloy at elevated temperature [with list of references]; by K. D. Sheffler, J. C. Sawyer, and E. A. Steigerwald. Sept. 1969. cover title, iii+24 p. il. 4° [Prepared by TRW Incorporated, Cleveland, Ohio, under contract NAS 3-9439.] Φ Paper, \$3.00.
- 16144 1438. Second-order wave structure in supersonic flows [with list of references]; by David A. Caughey. Sept. 1969. cover title, xii+77 p. il. 4° [Prepared under grant NGR-31-001-119 by Princeton University, Princeton, N.J.] Φ Paper, \$3.00.
- 16145 1439. Differential thresholds for motion in periphery [with bibliography]; by James M. Link and Leroy L. Vallerie. Sept. 1969. cover title, vii+17 p. il. 4° [Prepared under contract NAS 12-88 by Dunlap and Associates, Inc., Darien, Conn. Issued by originator as report BSD 69-701.] Φ Paper, \$3.00.
- 16146 1443. Techniques for generation of control and guidance signals derived from optical fields [with list of references]; by H. Hemami, M. B. Kuhner, and L. T. Bashark. Oct. 1969. x+64 p. il. 4° [Prepared under grant NGR-36-008-076 by Ohio State University, Columbus, Ohio. Issued by originator as report RF 2421.] Φ Paper, \$3.00.

- 16147 NASA scientific and technical information system . . . and how to use it. [1969.] 25 p. il. (Scientific and Technical Information Division, Office of Technology Utilization.) [Table of contents on p. 2 of cover. Page 25 of text is printed on p. 3 of cover.] \dagger NAS 1.2: Sci 2/6

NASA SP (series).

NAS 1.21:(nos.)

- 16148 212. Progress of NASA research on warm fog properties and modification concepts, proceedings of symposium held at NASA headquarters Feb. 6, 1969, Washington, D.C. [with lists of references]. 1969. v+122 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) Φ Paper, \$3.00.
L.C. card 72-604017
- 16149 3046. Real-gas effects in critical flow through nozzles and thermodynamic properties of nitrogen and helium at pressures to 300×10^6 newtons per square meter (approx. 300 atm), Dec. 1968, by Robert C. Johnson, errata. Oct. 3, 1969. 1 p. \dagger
- 16150 3047. Two-micron sky survey, preliminary catalog [with list of references]; prepared by G. Neugebauer, R. B. Leighton. [2d printing.] 1969. [1]+v+309 p. il. oblong 12° (Scientific and Technical Information Division, Office of Technology Utilization.) [Text on p. 2 of cover.] Φ Paper, \$3.00.
L.C. card 77-603841
- 16151 3050. Tabulations of configuration factors between any 2 spheres and their parts [with list of references]; by Norman T. Grier. 1969. iv+420 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) Φ Paper, \$3.00.
L.C. card 74-603843

NASA technical note TN (series).

NAS 1.14: D-(nos.)

- 16152 D-5188. Evaluation of meta-benzenedisulfonic acid as stress-reducing additive in Watts nickel electroplating bath [with list of references]; by J. A. Munford and C. E. Whitfield. Sept. 1969. cover title, iii+6 p. il. 4° Φ Paper, \$3.00.
- 16153 D-5284. Planetary effects in motion of natural satellites [with bibliography]; by Peter Musen. Oct. 1969. cover title, v+21 p. 4° Φ Paper, \$3.00.
- 16154 D-5311. Feasibility of detecting radiation scattered from plasma [with list of references]; by Melville Clark, jr. Sept. 1969. cover title, [1] p. il. 4° Φ Paper, \$3.00.
L.C. card 73-603989
- 16155 D-5345. Investigation of isothermal compressible flow across rotating sealing dam: 2, Computer program [with list of references]; by John Zuk, Patricia J. Smith, and Lawrence P. Ludwig. Sept. 1969. cover title, iii+45 p. il. 4° Φ Paper, \$3.00.
- 16156 D-5357. Optical simulation on radio-astronomy interferometer experiment; by James P. Strong III. Sept. 1969. cover title, iii+11 p. il. 4° Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

\dagger Distribution Made by Issuing Office

\dagger Official Use. Not Available

- 16157 D-5360. Absolute radiometers for use in ballistic-range and shock-tube experiments [with list of references]; by Roger A. Craig and William C. Davy, Oct. 1969. cover title, [3]+58 p. il. 4° Φ Paper, \$3.00.
- 16158 D-5368. Unified form of Lambert's theorem [with list of references]; by E. R. Lancaster and R. C. Blanchard, Sept. 1969. cover title, iii+13 p. il. 4° Φ Paper, \$3.00.
- 16159 D-5381. Approximation to statistics of midcourse velocity corrections [with list of references]; by Lawrence H. Hoffman and George R. Young, Sept. 1969. cover title, [1]+39 p. il. 4° Φ Paper, \$3.00.
- 16160 D-5384. Accurate strapdown direction cosine algorithm [with list of references]; by John W. Jordan, Sept. 1969. cover title, [1]+14 p. il. 4° Φ Paper, \$3.00.
- 16161 D-5393. Effect of jet velocity and axial location of nozzle exit on performance of twin-jet afterbody model at Mach numbers up to 2.2 [with list of references]; by Bobby Lee Berrier and Frederick H. Wood, jr. Sept. 1969. cover title, [1]+78 p. il. 4° Φ Paper, \$3.00.
- 16162 D-5396. Spectroscopic study of helium arc [with list of references]; by Victor E. Scherrer, Sept. 1969. cover title, [1]+11 p. il. 4° Φ Paper, \$3.00.
- 16163 D-5397. Experimental investigation of effect of aluminum size and loading on burning rate of solid propellants under acceleration [with list of references]; by G. Burton Northam and Wayne P. Jessee, Sept. 1969. cover title, [1]+25 p. il. 4° Φ Paper, \$3.00.
- 16164 D-5401. Fabrication and characteristics of microwave backward diodes in indium arsenide [with list of references]; by John B. Hopkins, Sept. 1969. cover title, [1]+23 p. il. 4° Φ Paper, \$3.00.
- 16165 D-5403. Evaluation of infrared heating simulation of Mach 4.63 flight on X-15 horizontal stabilizer [with list of references]; by Roger A. Fields and Andrew Vano, Sept. 1969. cover title, [1]+33 p. il. 4° Φ paper, \$3.00.
- 16166 D-5409. Analysis of flat-spin characteristics of twin-jet swept-wing fighter airplane [with list of references]; by Joseph R. Chambers, James S. Bowman, jr., and Ernie L. Anglin, Sept. 1969. cover title, [1]+33 p. il. 4° Φ Paper, \$3.00.
- 16167 D-5410. Dynamic response of flexible rotor blade to concentrated force moving from tip to root [with list of references]; by John F. Ward, Sept. 1969. cover title, [1]+41 p. il. 4° Φ Paper, \$3.00.
- 16168 D-5413. Cryogenic fracture properties of thin AISI 301 60-percent cold-reduced sheet at various angles to rolling direction [with list of references]; by Frederick D. Calfo, Sept. 1969. cover title, ii+23 p. il. 4° Φ Paper, \$3.00.
- 16169 D-5414. Analytical and experimental studies of MHD generator cathodes emitting in "spot" mode [with list of references]; by Lester D. Nichols and Maris A. Mantenieks, Sept. 1969. cover title, ii+26 p. il. 4° Φ Paper, \$3.00.
- 16170 D-5417. Hot-salt-stress-corrosion cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium-alloy sheet [with list of references]; by Dick M. Royster, Sept. 1969. cover title, [1]+35 p. il. 4° Φ Paper, \$3.00.
- 16171 D-5418. Pressures and heat transfer on 75° swept delta wing with trailing-edge flap at Mach 6 and angles of attack to 90° [with list of references]; by J. Wayne Keyes, Sept. 1969. cover title, [1]+44 p. il. 4° Φ Paper, \$3.00.
- 16172 D-5421. Dispersion-strengthened nickel produced from ultrafine comminuted powders [with list of references]; by Max Quatinnetz and John W. Weeton, Oct. 1969. cover title, [1]+26 p. il. 4° Φ Paper, \$3.00.
- 16173 D-5422. Phenomenological theory of loudness [with list of references]; by Walter L. Howes, Sept. 1969. cover title, ii+49 p. il. 4° Φ Paper, \$3.00.
- 16174 D-5423. Molecular vibration spectra from field emission energy distributions [with list of references]; by Dennis J. Flood, Sept. 1969. cover title, [1]+21 p. il. 4° Φ Paper, \$3.00.
- 16175 D-5424. Statistical analysis of high-temperature creep-rate data for alloys of tantalum, molybdenum, and columbium [with list of references]; by William L. Maag and William F. Mattson, Sept. 1969. cover title, [1]+21 p. il. 4° Φ Paper, \$3.00.
- 16176 D-5427. FORTTRAN program for calculating transonic velocities on blade-to-blade stream surface of turbo-machine [with list of references]; by Theodore Katsanis, Sept. 1969. cover title, iv+93 p. il. 4° Φ Paper, \$3.00.
- 16177 D-5428. Transistor performance in intense magnetic fields [with list of references]; by Wayne R. Hudson, Erwin H. Meyn, and Clarence W. Schultz, Sept. 1969. cover title, [1]+12 p. il. 4° Φ Paper, \$3.00.
- 16178 D-5429. Heat-transfer characteristics of water-to-cryogenic-hydrogen heat exchanger [with list of references]; by William F. Weiland, jr. and Donald W. Adams, Sept. 1969. cover title, [1]+31 p. il. 4° Φ Paper, \$3.00.
- 16179 D-5430. Evaluation of technique for measuring ion energy loss in vapor-deposited materials [with list of references]; by Joseph S. Heyman, Sept. 1969. cover title, [1]+16 p. il. 4° Φ Paper, \$3.00.
- 16180 D-5431. Analysis of gamma-ray-backscatter technique for direct measurement of density of Martian atmosphere [with list of references]; by Peter J. LeBel, Sept. 1969. cover title, [1]+26 p. il. 4° Φ Paper, \$3.00.
- 16181 D-5433. Comparison of prediction methods and studies of relaxation in hypersonic turbulent nozzle-wall boundary layers [with list of references]; by Dennis M. Bushnell [and others], Sept. 1969. cover title, [1]+33 p. il. 4° Φ Paper, \$3.00.

GOVERNMENT PUBLICATIONS

NASA technical note TN (Series)—Continued

- 16182 D-5434. Modified method of integral relations approach to blunt-body equilibrium air flow field, including comparisons with inverse solutions [with list of references]; by L. Bernard Garrett, John T. Suttles, and John N. Perkins. Sept. 1969. cover title, [1]+92 p. il. 4° Φ Paper, \$3.00.
- 16183 D-5437. Computer program for composing compressor blading from simulated circular-arc elements on conical surfaces [with list of references]; by James E. Crouse, David C. Janetzke, and Richard E. Schwirian. Sept. 1969. cover title, [1]+82 p. il. 4° Φ Paper, \$3.00.
- 16184 D-5438. Bodies of revolution having minimum total drag in hypersonic flow [with list of references]; by Waldo I. Oehman, and Sylvia A. Wallace. Sept. 1969. cover title, [1]+51 p. il. 4° Φ Paper, \$3.00.
- 16185 D-5440. Power- and cross-spectra and space-time correlations of surface fluctuating pressures at Mach numbers between 1.6 and 2.5 [with list of references]; by Wei J. Chyu and Richard D. Hanly. Sept. 1969. cover title, [1]+19 p. il. 4° Φ Paper, \$3.00.
- 16186 D-5442. Effect of nuclear radiation at cryogenic temperatures on tensile properties of titanium and titanium-base alloys [with list of references]; by Charles L. Younger and Fred A. Haley. Sept. 1969. cover title, [1]+51 p. il. 4° Φ Paper, \$3.00.
- 16187 D-5444. Three-track runway and taxiway profiles measured at international airports A and B [with 1 reference]; by Albert W. Hall. Sept. 1969. cover title, [1]+101 p. il. 4° Φ Paper, \$3.00.
- 16188 D-5448. Electron bombardment thruster operated with cusped magnetic field [with list of references]; by Allan J. Cohen. Sept. 1969. cover title, [1]+19 p. il. 4° Φ Paper, \$3.00.
- 16189 D-5449. Summary of X1-76 airplane cockpit environmental data [with list of references]; by Kirk S. Irwin and William H. Andrews. Oct. 1969. cover title, [1]+22 p. il. 4° Φ Paper, \$3.00.
- 16190 D-5450. Effects of angle of attack and bluntness on laminar heating-rate distributions of 15° cone at Mach number of 10.6 [with list of references]; by Joseph W. Cleary. Oct. 1969. cover title, [1]+54 p. il. 4° Φ Paper, \$3.00.
- 16191 D-5453. Stress concentration around broken filaments in filament-stiffened sheet [with list of references]; by W. B. Fichter. Oct. 1969. cover title, [1]+32 p. il. 4° Φ Paper, \$3.00.
- 16192 D-5454. Flow-field and drag characteristics of several boundary-layer tripping elements in hypersonic flow [with list of references]; by Allen H. Whitehead Jr. Oct. 1969. cover title, [1]+38 p. il. 4° Φ Paper, \$3.00.
- 16193 D-5459. Unified treatment of lunar theory and artificial satellite theory [with list of references]; by William A. Mersman. Oct. 1969. cover title, [1]+36 p. il. 4° Φ Paper, \$3.00.
- 16194 D-5460. Injection of inviscid separated jet at oblique angle to moving stream [with list of references]; by Marvin E. Goldstein and Willis Braun. Oct. 1969. cover title, [1]+70 p. il. 4° Φ Paper, \$3.00.
- 16195 D-5461. Effect of electrothermal instabilities on Brayton- and Rankine-cycle magnetohydrodynamic space-power generation systems [with list of references]; by Allan R. Bishop and Lester D. Nichols. Oct. 1969. cover title, [1]+16 p. ill 4° Φ Paper, \$3.00.
- 16196 D-5462. Motion of single bubbles under low gravitational conditions [with list of references]; by John B. Haggard, Jr., and William J. Masica. Oct. 1969. cover title, [1]+30 p. il. 4° Φ Paper, \$3.00.
- 16197 D-5464. Simulation of pyrolysis-gas flow through char layer during ablation [with list of references]; by Ronald K. Clark. Oct. 1969. cover title, [1]+37 p. il. 4° Φ Paper, \$3.00.
- 16198 D-5465. Estimation of variance by recursive equation [with list of references]; by M. Melvin Bruce. Oct. 1969. cover title, [1]+28 p. il. 4° Φ Paper, \$3.00.
- 16199 D-5467. Discharge coefficients for thick plate orifices with approach flow perpendicular and inclined to orifice axis [with list of references]; by John E. Rohde, Hadley T. Richards, and George W. Metger. Oct. 1969. cover title, [1]+28 p. il. 4° Φ Paper, \$3.00.
- 16200 D-5473. Transformer of closely spaced pulsed waveforms having nonzero average value [with list of references]; by Janis M. Niedra. Oct. 1969. cover title, [1]+26 p. il. 4° Φ Paper, \$3.00.
- 16201 D-5474. Device for producing both hard copy alphanumeric listings and digital data plots; by John W. Oglesbee. Oct. 1969. cover title, [1]+24 p. il. 4° Φ Paper, \$3.00.
- 16202 D-5484. Cavitation damage and effect of fluid temperature on performance of axial-flow pump in liquid sodium [with list of references]; by Walter S. Cunnann and Dean C. Reemsnyder. Oct. 1969. cover title, [1]+24 p. il. 4° Φ Paper, \$3.00.

NASA technical report R (series).

NAS 1.12:(nos.)

- 16203 320. Communication efficiency of quantum systems [with list of references]; by Sherman Karp. Sept. 1969. cover title, [1]+22 p. il. 4° Φ Paper, \$3.00.
- 16204 321. Calibration of Pegasus and Explorer XXIII detector panels [with list of references]; by Robert J. Naumann, David W. Jex, and Clyde L. Johnson. Sept. 1969. cover title, iv+37 p. il. 4° Φ Paper, \$3.00.
- 16205 322. Determination of meteoroid environments from photographic meteor data [with list of references]; by Charles C. Dalton. Oct. 1969. cover title, xiii+121 p. il. 4° Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16206 326. New matrix theorem and its application for establishing independent co-ordinates for complex dynamical systems with constraints [with list of references]; by William C. Walton, Jr. and Earl C. Steeves, Oct. 1969, cover title, [1]+27 p. il. 4° Φ Paper, \$3.00.
- NASA technical translation TT (series). NAS 1.13/2: F-(nos.)
- 16207 F-528. Problems of space biology, v. 6 [articles, with bibliographies]; N. M. Sisakyan, editor, July 1969, cover title, xiv+[3]+577 p. il. 4° [Translation of Problemy kosmicheskoy biologii, Tom 6, Nauka press, Moscow, 1967.] Φ Paper, \$3.00.
L.C. card 74-604177
- 16208 F-536. Radiophysics, 1965-66, radiophysical investigations of Venus [with list of references]; by A. D. Kuzmin, Sept. 1969, cover title, vi+[2]+153 p. il. 4° [Translation of Radiofizika, 1965-66, Radiofizicheskiye issledovaniya venery, in series: Fizika (Physics), All-Union Institute of Scientific and Technical Information, Academy of Sciences USSR, Moscow, 1967.] Φ Paper, \$3.00.
L.C. card 74-604012
- 16209 F-542. Aerodynamics and flight dynamics of turbojet aircraft; T. I. Ligum, Sept. 1969, cover title, viii+[2]+241 p. il. 4° [Translation of Aerodinamika i dinamika poleta turboaktivnykh samoletov, Transport press, Moscow, 1967.] Φ Paper, \$3.00.
L.C. card 71-603975
- 16210 F-583. High temperature oxidation protection of tungsten [with list of references]; by V. Ye. Ivanov [and others], Aug. 1969, cover title, vii+[2]+125 p. il. 4° Φ Paper, \$3.00.
L.C. card 75-603401
- 16211 On analysis of allocation of Federal budget resources as indicator of national goals and priorities, pt. 1, [Summary]; by Leonard L. Lederman and Margaret L. Windus, Feb. 10, 1969, [84] p. il. 4° (Report BMI-NLVP-TR-69-1; [Office of Space Science and Applications, Launch Vehicle and Propulsion Programs]; contract NAS2-1146.) * Paper, \$1.00. \bullet Item S30-C NAS 1.2: G 53/pt.1
- 16212 Opportunities for participation in space flight investigations, NHB 8030.1A, Memorandum change 22, July 15, 1969, 9 p. 4° * Paper, \$1.75. (including basic handbook and supplementary material for one year); 50c additional for foreign mailing. \bullet Item S30-F NAS 1.18: Sp 1/2/ch.23

NATIONAL ARCHIVES AND RECORDS SERVICE, General Services Administration, Washington, DC 20408

General information leaflet.

- 16213 1. National Archives, [1969.] [8] p. il. narrow 8° ([69-1.]) \ddagger GS 4.22: 1
National Archives microfilm publications: Pamphlet accompanying microcopy. (National Archives.) \ddagger GS 4.20: (nos.)
- 16214 149. Letter sent by Secretary of Navy to officers, 1798-1868, 1969, 4 p.
- 16215 174. Letters received by Secretary of Treasury from collectors of customs, 1833-1869, [1969.] cover title, 14 p.
- 16216 176. Letters sent by Secretary of Treasury to collectors of customs at Pacific ports, 1850-78, [1969.] cover title, 5 p.
- 16217 177. Letters and reports received by Secretary of Treasury from special agents, 1854-61, [1969.] cover title, 5 p.
- 16218 272. Quarterly abstracts of passenger lists of vessels arriving at New Orleans, 1820-1875; [prepared by Joyce D. Ciarrocchi], 1969, 4 p.
- 16219 282. Despatches from United States consuls in La Paz, Mexico, 1855-1906; [prepared by Ralph E. Huss], 1969, cover title, 4 p.
- 16220 334. Supplemental index to passenger lists of vessels arriving at Atlantic and Gulf Coast ports (excluding New York) 1820-1874; [prepared by Joyce D. Ciarrocchi], 1969, 8 p.
- 16221 799. Records of Superintendent of Education for State of Georgia Bureau of Refugees, Freedmen, and Abandoned Lands 1865-1870; [prepared by Elaine Everly], 1969, 8 p.
- 16222 Records management handbook: Managing forms, forms management, 1969, iv+34+[1] p. il. 4° (FPMR 101-11.2.) (Office of Records Management, Federal stock no. 7610-142-9363.) * Paper, 35c. \bullet Item 569-B
L.C. card 79-604138 GS 4.6/2: F 76/3

NATIONAL BUREAU OF STANDARDS, Commerce Dept.

Gaithersburg, MD 20760

Building science series.

- 16223 23. Errata to Hail resistance of roofing products, by Sidney H. Greenfield, [1969.] 1 p. oblong 24° \ddagger \bullet Item 241-A C 13.29+2: 23+errata

Φ For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

\bullet Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Miscellaneous publication.

- 16224 260. Standard reference materials: [Catalog and price list of standard materials issued by National Bureau of Standards, July 1, 1969], quarterly insert sheets, July 1, 1969. 22 p. 4° † ● Item 247 C 13.10: 260†insert 969-1

Special publications. ● Item 247

C 13.10: (nos.)

- 16225 306-4. Bibliography on analyses of optical atomic spectra, sec. 4 [⁶⁷La-⁷¹Lu, ⁸⁹Ac-⁹⁰Es; by] Charlotte E. Moore. Aug. 1969. viii+48 p. 4° (Office of Standard Reference Data.) * Paper, 55c.
L.C. card 68-62107
- 16226 315-2. Bibliography on high temperature chemistry and physics of materials, Apr.-June 1969; J. J. Diamond, editor. July 1969. v+74 p. 4° (Institute for Materials Research.) [Prepared under auspices of International Union of Pure and Applied Chemistry, Commission on High Temperatures and Refractories.] * Paper, 75c.
L.C. card 77-600413

Technical notes. ● Item 249-A

C 13.46: (nos.)

- 16227 479. Errata to accompany FORTRAN program for analysis of ellipsometer measurements, by Frank L. McCrackin. [1969.] [8] leaves, 4° †
- 16228 494. ARPA-NBS program of research on high temperature materials; edited by A. D. Franklin. Sept. 1969. [2]+26 p. 4° (Institute for Materials Research.) [Supported by Advanced Research Projects Agency, Department of Defense.] * Paper, 35c.
L.C. card 75-603976
- 16229 495. Methods of measurement for semiconductor materials, process control, and devices, quarterly report, Apr. 1-June 30, 1969; edited by W. Murray Bullis. Sept. 1969. iii+43 p. il. 4° (Electronic Technology Division, Institute for Applied Technology.) [Jointly supported by Defense Atomic Support Agency, Navy Strategic Systems Project Office, and National Aeronautics and Space Administration.] * Paper, 50c.
- 16230 496. Rare gas resonance lamps [with list of references; by] R. Gorden, jr., R. E. Rebert, and P. Ausloos. Oct. 1969. ii+32+[21] p. il. 4° (Physical Chemistry Division, Institute for Materials Research.) * Paper, 60c.
L.C. card 79-604040
- 16231 497. Effects of extended high-temperature storage on performance characteristics of several strain gage pressure transducers [with list of references; by] Randolph Williams. Oct. 1969. iv+18 p. il. 4° (Electronic Technology Division, Institute for Applied Technology.) * Paper, 30c.
L.C. card 76-604026
- 16232 504. Analytical Coordination Chemistry Section, summary of activities, July 1968-June 1969 [with list of references]; edited by Oscar Menis. Oct. 1969. xlii+106 p. il. 4° (Analytical Chemistry Division, Institute for Materials Research.) * Paper, \$1.00.
- 16233 505. Microchemical Analysis Section, summary of activities, July 1968-June 1969 [with list of references]; edited by John K. Taylor. Oct. 1969. xiv+126 p. il. 4° (Analytical Chemistry Division, Institute for Materials Research.) * Paper, \$1.25.
L.C. card 67-60948
- 16234 507. Organic Chemistry Section, summary of activities, July 1968-June 1969 [with list of references]; edited by Robert Schaffer. Oct. 1969. xiv+131 p. il. 4° (Analytical Chemistry Division, Institute for Materials Research.) * Paper, \$1.25.

NATIONAL CENTER FOR SOCIAL STATISTICS, Health, Education, and Welfare Dept., Washington, DC 20201

NOTE.—The National Center for Social Statistics was established as part of Social and Rehabilitation Service to provide staff coordination, direction, and advice for all statistical activities and programs for SRS.

- 16235 Medical assistance financed under public assistance titles of Social security act, Feb. 1969. [1969.] 6+[27] p. 4° (NCSS report B-1 (2/69).) [Issued with perforations.] † FS 17.616: 969
- 16236 Reasons for opening and closing public assistance cases, July-Dec. 1968. [1969.] [2] p. 10 tab. 4° (NCSS report A-5 (7-12/68).) [Issued with perforations.] † FS 17.163: 968-2

NATIONAL COUNCIL ON MARINE RESOURCES AND ENGINEERING DEVELOPMENT, Executive Office of the President, Executive Office Building, Washington, DC 20500

- 16237 University curricula in marine sciences and related fields, academic years 1969-70 and 1970-71; prepared by Marine Sciences Affairs Staff, Office of the Oceanographer, Navy. [1969.] xii+273 p. 4° * Paper, \$2.00.
● Item 1070-II PrEx 12.2: UN 3

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NATIONAL GUARD BUREAU, Defense Dept.
Washington, DC 20310

NGB pamphlet.

- 16238 18-1. Automatic data processing systems and procedures, PCAM (punched card accounting machine) utilization. [June 30, 1969.] cover title, [32] p. 4° (ANG pamphlet 171-01; [Department of Army and Air Force].) [Effective July 1, 1969. Issued with perforations.] ‡ ● Item 358
D 12.8: 18-1

NATIONAL HIGHWAY SAFETY BUREAU, Transportation Dept.
Washington, DC 20591

- 16239 Executive summaries, National Highway Safety Bureau contractors report, Jan. 1968-Feb. 1969. [1969.] ix+198 p. il. 4° [Errata, 9 p., was issued also.] * Paper, \$175. ● Item 982-D-5
L.C. card 75-603515 TD 2.212: 968-6
- 16240 Highway safety literature, subject category (field/group) index to issue numbers 1-52, Dec. 1967-Dec. 1968. Sept. 1, 1969. cover title, iii+31 p. 4° (HS-S20055.) ‡
L.C. card 70-604109 TD 2.210/4: 1-52
- 16241 Planning for quality in motor vehicle safety standards, [by] H. M. Jacklin, jr., Acting Director, Motor Vehicle Safety Performance Service. [1969.] 36 p. 17 pl. 4° [Remarks prepared for delivery before International Automotive Engineering Congress and Exposition, 1969 annual meeting of Society of Engineers, Inc., Detroit, Mich., Jan. 15, 1969.] ‡
TD 2.211: J 12
- Proceedings of National Highway Safety Bureau priorities seminar held at Fredericksburg, Va., July 18-20, 1969. [1969.] ‡
L.C. card 79-604111 TD 2.202: P 93/969/v. (nos.)
- 16242 v. 2. Alcohol and highway safety countermeasures [with list of references]. cover title, vii+79 p. il. 4°
- 16243 v. 3. Emergency medical services [with reference summary]. cover title, vi+25 p. 4°
- 16244 v. 4. Crash survivability. cover title, v+68 p. 4°
- 16245 v. 5. Speed-related accident countermeasures and their priorities [with list of references]. cover title, viii+89 p. 4°
- 16246 v. 6. Driver behavior [with list of references]. cover title, v+95 p. il. 4°
- 16247 v. 7. Enforcement. cover title, v+52 p. 4°
- 16248 v. 8. Compliance. cover title, vii+34 p. 4°
- 16249 v. 9. Data contribution [with list of references]. cover title, vii+58 p. il. 4°
- 16250 v. 10. Public information and highway safety. v+32 p. 4°
- 16251 Read before driving. [1969.] [8] p. il. oblong 48° * Paper, 15c. ● Item 982-D-1
TD 2.202: D 83/2/969

NATIONAL INSTITUTES OF HEALTH, Health, Education, and Welfare
Dept., Bethesda, MD 20014

- 16252 Career opportunities at National Institutes of Health. [1969.] cover title, [16] p. il. 4° ‡ ● Item 507
FS 2.22: C 18
- 16253 Dorsal column system of spinal cord, its anatomy, physiology, phylogeny and sensory function, updated review; [by] Allen C. Norton. [1969.] cover title, [5]+181 leaves, 4° (UCLA Brain Information Service, NINDS Neurological Information Network.) [Supported by contract DHEW PH-43-66-59.] ‡ ● Item 507
FS 2.22: D 73
- 16254 Epilepsy abstracts, review of published literature 1947-67; editors J. F. Mirandolle, L. M. Vencken. [1969.] (National Institute of Neurological Diseases and Stroke.) [Prepared by Excerpta Medica Foundation pursuant to contract with PHS, USDHEW PH 43-67-1469.] ‡ ● Item 507-A-18
L.C. card 70-604019 FS 2.22/59-2: 947-67/pt.1,2
pt. 1. Abstracts. [5]+1-793 p. 4°
pt. 2. Indexes. [1]+795-1385 p. 4°

GOVERNMENT PUBLICATIONS

Framingham study, epidemiological investigation of cardiovascular disease; [editors William B. Kannel and Tavia Gordon].

- 16255 sec. 23. Serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease; [by Tavia Gordon and Joel Verter]. [1969.] [239] p. il. 4° [Issued in looseleaf form.] * Paper, \$1.75. Item 507
L.C. card 71-603009 FS 2.22 : F 84/sec.23
- 16256 Health manpower source book: 20, Manpower supply and educational statistics for selected health occupations, 1968; prepared by Manpower Resources Staff. [1969.] xv+164 p. il. 4° ([Publication 263, sec. 20]; Bureau of Health Professions Education and Manpower Training.) * Paper, \$1.75. Item 485
L.C. card 52-61801 FS 2.2 : M 31/sec.20
- 16257 Highlights of research progress in human development, 1967; [prepared by Information Office, National Institute of Child Health and Human Development]. June 1969. [2] leaves+11 p. 4° † Item 507
FS 2.22 : H 88
- National Cancer Institute monographs. Item 507-L
FS 2.22/18 : (nos.)
- 16258 31. Neoplasms and related disorders of invertebrate and lower vertebrate animals [symposium held at Smithsonian Institution, Washington, D.C., June 19-21, 1968 sponsored by Smithsonian Institution and National Cancer Institute; papers, with lists of references]. July 1969. xvi+772 p. il. large 8° (National Cancer Institute.) * Cloth, \$9.00
L.C. card 70-604035
- 16259 32. Comparative morphology of hematopoietic neoplasms [symposium held at Armed Forces Institute of Pathology, Washington, D.C., Mar. 11 and 12, 1968, sponsored by Armed Forces Institute of Pathology and National Cancer Institute, with list of references; editors, Carolyn H. Lingeman and F. M. Garner]. Aug. 1969. xi+365 p. il. large 8° * Cloth, \$5.50.
L.C. card 70-604086
- 16260 National Institute of Dental Research directory of U.S. facilities providing cleft lip and cleft palate services. [1969.] x+270 p. il. 4° † Item 507
L.C. card 78-604056 FS 2.22 : C 58
- 16261 National Institute of Neurological Diseases and Stroke mission & publications for public; [prepared by Information Office]. [1969.] 6 p. il. narrow 8° † Item 507
FS 2.22 : N 21/13
- 16262 National Institutes of Health postdoctoral research fellowships [announcement]. Sept. 1969. [4] p. 4° † Item 507
FS 2.22 : F 33/4/969
- 16263 National Institutes of Health predoctoral research fellowships [announcement]. Sept. 1969. [4] p. 4° † Item 507
FS 2.22 : F 33/2/969
- 16264 Public Health Service grants and awards, fiscal year 1968 funds: pt. 3. Construction, health research facilities, health-related teaching facilities and projects approved during fiscal year 1968 for hospital and medical facilities, community mental health centers, medical library facilities; [prepared by Division of Research Grants, Statistics and Analysis Branch]. [1969.] ix+95 p. * Paper, 50c. Item 507-D
L.C. card 48-2277 FS 2.22/7 : 968/pt.3
- 16265 Short-term training courses under professional nurse traineeship program of U.S. Public Health Service. Revised July 1969. [1969.] [2]+5+[2] p. ([Bureau of Health Professions Education and Manpower Training, Division of Nursing.]) [Supplement B to Public Health Service publication 1154-1.] † Item 485
FS 2.2 : N 93/38/supp./969-2
- 16266 Transplantation immunology research, collaborative program of National Institute of Allergy and Infectious Diseases. [1969.] cover title, [16] p. il. oblong 24° † Item 507
FS 2.22 : T 68/3/969

NATIONAL PARK SERVICE, Interior Dept.

Washington, DC 20242

Archeological research series.

- 16267 7-13. Environment of Mesa Verde, Colo. [with list of references]; by James A. Erdman, Charles L. Douglas, and John W. Marr. 1969. 72 p. il. 4° (Wetherill Mesa Studies.) * Cloth, \$3.50. Item 646-A
L.C. card 72-600243 I 29.59 : 7-B

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16268 Cape Cod National Seashore, Mass. [1969.] [2] p. il. narrow f° folded into narrow 21° size. † ● Item 651 I 29.6/2: C 17/2/969
- 16269 Catoctin Mountain Park, [Md.]. [1969.] [2] p. il. oblong large 8°, folded into narrow 24° size. † ● Item 651 I 29.6: C 29/2/969
- 16270 Chaco Canyon National Monument, N. Mex. [Revised June 1969.] [1969.] [8] p. il. narrow 8° † ● Item 650 I 29.21: C 34/969
- 16271 Custis-Lee Mansion, Arlington, Va. [1969.] [10] p. il. narrow 8° * Paper, 10c. ● Item 650 I 29.21: L 51/4
- 16272 George Washington Birthplace National Monument, Va. [Revised 1969.] [1969.] [2] p. il. large 4°, folded into narrow 21° size. † ● Item 650 I 29.21: G 29/12/969
- Historic American Buildings Survey selections.
- 16273 5. Georgetown residential architecture, northeast, northwest Washington, District of Columbia. [1969.] xiii+233 p. il. 4° [Issued jointly by Commission of Fine Arts and Historic American Buildings Survey, Department of Interior National Park Service, Office of Archeology and Historic Preservation.] † ● Item 648-B L.C. card 77-604029 I 29.74: G 29/4
- 16274 7. New York City architecture. July 1968. iv+96+[1] p. il. 4° (Office of Archeology and Historic Preservation, Division of Historic Architecture.) † L.C. card 73-604028 I 29.74: N 42y
- 16275 Historic structures report, pts. 1 & 2, Milton Mine, Organ Pipe Cactus National Monument, Ariz.: Historical data section, by Roy E. Appleman: Architectural data section, by Russell Jones. June 2, 1969. [3]+iv+31+[6] leaves, 17 pl. map. 4 ([Historical resource study proposal, ORP1-H-1; Division of History], Office of Archeology & Historic Preservation.) [Includes Administrative data section for Milton Mine Complex, prepared by Monument Staff. Some leaves are issued as pages.] † L.C. card 79-604083 I 29.2: M 64
- 16276 Horseshoe Bend National Military Park, Ala. [1969.] [10] p. il. narrow 8° † ● Item 650 I 29.21: H 78/969
- 16277 Master plan for Fort McHenry National Monument and Historic Shrine. 1969. 24 p. il. 4° * Paper, 50c. ● Item 648-A L.C. card 77-603632 I 29.9/2: F 77 me
- 16278 Thomas Jefferson Memorial, Washington, D.C. [1969.] [10] p. il. narrow 8° † ● Item 650 I 29.21: J 35/2/969
- 16279 Wildlife management in national parks. [1969.] [1]+14 p. il. (Advisory Board on Wildlife Management.) [1969 reprint from Administrative policies for natural areas of National Park System]. * Paper, 15c. I 29.9/4 a: W 646

NATIONAL SCIENCE FOUNDATION

Washington, DC 20550

- 16280 Continuing education for R&D careers [with bibliography]. [June 1969.] cover title, x+215 p. 4° (NSF 69-20.) [Prepared for National Science Foundation by Social Research, Inc., contract NSF C-457.] * Paper, \$1.75. ● Item 834-C NS 1.2: Ed 8/6
- 16281 Scientific activities of nonprofit institutions, 1966; 1966 expenditures and Jan. 1967 manpower. [1969.] vii+82 p. il. 4° (NSF 69-16; Surveys of science resources series.) * Paper, \$1.00. ● Item 834-T NS 1.22: In 7/966
- L.C. card 71-604049

NATIONAL TRANSPORTATION SAFETY BOARD, Transportation Dept.

Washington, DC 20590

- 16282 Aircraft accident reports: Braniff Airways, Inc., Lockheed L-188, N9707C, Dawson, Tex., May 3, 1968; [adopted June 19, 1969]. [1969.] [69] p. il. 4° (SA-493; File 1-0003.) Φ Paper, \$3.00. TD 1.112: D 32

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 81

GOVERNMENT PUBLICATIONS

- 16283 Aircraft accident reports: North Central Airlines, Inc., Convair 580, N4634S, Home Airmotive, Inc., Cessna 150, N8742S, midair collision, Milwaukee, Wis., Aug. 4, 1968; adopted July 8, 1969. [1969.] [2]+43+2+[3] p. il. 4° (SA-405; File 1-0011.) [Issued with perforations.] Φ Paper, \$3.00. TD 1.112: M 64
- 16284 — Piedmont Airlines, Fairchild-Hiller 227B, N712U, Charleston, W. Va., Aug. 10, 1968; adopted Aug. 21, 1969. [1969.] [59] p. il. 4° (File 1-0014.) [Issued with perforations.] Φ Paper, \$3.00. TD 1.112: C 38
- 16285 — Trans World Airlines, Inc., Convair 880, N 821TW, Constance, Ky., Nov. 20, 1967; adopted Aug. 27, 1969. [1969.] [63] p. il. 4° (File 1-0033.) Φ Paper, \$3.00. TD 1.112: C 76
- 16286 Briefs of accidents involving aerial applications operations, U.S. general aviation, 1967. n.d. [1]+xvi+107 p. 4° † L.C. card 76-604077 TD 1.109/4: 967
- 16287 Briefs of accidents involving rotorcraft, U.S. general aviation, 1967. n.d. [1]+xvi+71 p. 4° † L.C. card 70-604078 TD 1.109/5: 967
- 16288 Study of towing vessel safety and accident preventive recommendations; [by National Transportation Safety Board]. Aug. 29, 1969. cover title. ii+35 p. il. 4° † TD 1.102: T 65

NAVAL FACILITIES ENGINEERING COMMAND, Defense Dept. Washington, DC 20360

- 16289 Definitive designs for naval shore facilities, July 1962 pt. 1, v. 1 and 2, Change 7; June 1969. [1969.] [13] leaves il. oblong f° (NAVDOCKS P-272 (1), Change 7.) [Includes publications transmittal. Issued in loose-leaf form.] * Paper, \$1.00. ● Item 418-A D 209.14: D 46/pt.1/v.1,2/ch.7
- 16290 Definitive designs for naval shore facilities, Nov. 1963, pt. 2, Change 5; June 1969. [1969.] [3] leaves, il. oblong f° (NAVDOCKS P-272, pt. 2, Change 5.) [Includes Publication transmittal. Issued in looseleaf form.] * Paper, 60c. ● Item 418-A D 209.14: D 46/pt.2/ch.5
- Design manual DM (series).
- 16291 29. [Drydocking facilities, with bibliographies]. Revised edition. July 1969. 2+xiii+[308] p. il. 4° (NAVFAC DM-29, June 1969.) [Cancels and supersedes Drydocking facilities, NAVDOCKS DM-29, Feb. 1962, in its entirety, and all changes. Includes list of criteria sources. Issued with perforations.] * Paper, \$3.00. ● Item 418-A D 208.14/2: 29/2

NAVAL OBSERVATORY, Defense Dept. Washington, DC 20350

- 16292 Air almanac, 1970, Jan.-Apr. 1969. 242+ F 4+A 82 p. il. 4° [Text on p. 2-4 of cover. The F 4 pages of collation consist of Navigational star chart mounted on cloth, with Stars, Jan.-Apr. 1969, Interpolation of G.H.A., Interpolation of moonrise, moonset, and Star index on verso. Produced jointly by H.M. Nautical Almanac Office, Royal Greenwich Observatory, and by Nautical Almanac Office, U.S. Naval Observatory. Printed separately in England and United States.] * Stiffboard, \$3.75. ● Item 393 D 213.7: 970
L.C. card 52-61239

NAVAL OCEANOGRAPHIC OFFICE, Defense Dept. Washington, DC 20390

Informal report IR (series).

- 16293 69-56. Marine biofouling at Penobscot Bay, Maine, and Placentia Sound, Newfoundland, 1960-68 [with bibliography: by John R. DePalma]. Aug. 1969. cover title, [3]+14+2 p. il. 4° ([Project 102-01.]) † D 203.26/2: 69-56
- 16294 National Oceanographic Instrumentation Center. [Jan. 1969.] cover title. [16] p. il. 4° [Text on p. 3 of cover.] † D 203.2: N 21

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16295 Naval Oceanographic Data Center highlights, July 1, 1968-June 30, 1969. [1969.] [2]+44+[1] p. il. 4° ‡ D 203.24/3: N 21/968-69
- 16296 Oceanography '68, annual report of Commander, Naval Oceanographic Office, fiscal year 1968. [1969.] vi+79 p. il. 1 pl. [Includes bibliography of significant publications, reports, and papers produced or begun.] * Paper, 55c. ● Item 377-A (Rev. 1964) L.C. card 8-12043 D 203.1: 968
- Publications.** D 203.22: (nos.)
- 16297 9. Tables from American practical navigator, Bowditch, 1962, corrected print. [1969.] [2]+1185-1456+[2]+1053-58 p. large 8° * Cloth, \$4.00.
- 16298 15. Change 4, Aug. 30, 1969, loose leaf change pages for correcting Sailing directions for Labrador and Hudson Bay, 1st edition, 1965. [1969.] [259] p. il. 4° [Includes list of effective pages.] † Paper, \$1.75. ● Item 378 (Rev. 1957)
- 16299 23. Change 1, Sept. 6, 1969, loose leaf change pages for correcting Sailing directions for South America, v. 1, 6th edition, 1967. [1969.] [227] p. il. 4° [Includes list of effective pages.] † Paper, \$1.75. ● Item 378 (Rev. 1967)
- 16300 63. Change 2, Sept. 13, 1969, loose leaf change pages for correcting Sailing directions for west coast of India, 5th edition, 1967. [1969.] [65] p. il. 4° [Includes list of effective pages.] † Paper, \$1.75. ● Item 378 (Rev. 1967)
- 16301 111A. Change 22, Aug. 9, 1969, List of lights and fog signals, Greenland, east coasts of North and South America (excluding continental U.S.A. except east coast of Florida) and West Indies, 1969. [1951] p. 4° [Includes list of effective pages and Notice to mariners 32, 1969. Issued in loose-leaf form.] † Paper, 50c. ● Item 378 (rev. 1957)
- 16302 112. Change 21, July 26, 1969, List of lights and fog signals, western Pacific and Indian Oceans including Persian Gulf and Red Sea, 1969. [144] p. il. 4° [Includes list of effective pages and Notice to mariners 30, July 26, 1969. Issued in looseleaf form.] † Paper, 50c. ● Item 378 (Rev. 1957)
- 16303 113. Change 22, List of lights and fog signals, west coasts of Europe and Africa, Mediterranean Sea, Black Sea, and Azovskoye More (Sea of Azov), 1969. [258] p. 4° [Includes list of effective pages. Issued in looseleaf form.] † Paper, 50c. ● Item 378 (Rev. 1957)

NAVAL OPERATIONS OFFICE, Defense Dept.

Washington, DC 20390

- 16304 Dictionary of American naval fighting ships, v. 4 [with bibliography], 1969. [1969.] [1]+xxvi+745+[2] p. il. 4° (Naval History Division.) [Illustrated lining papers.] * Cloth, \$1.50. ● Item 399-A L.C. card 60-60198 D 207.10: 4
- 16305 History of Naval Overseas Transportation Service in World War I: by Lewis P. Clephane, with introduction by Ernest McNeill Elder, 1969. xxii+283 p. il. large 8° (Naval History Division.) [Illustrated lining papers.] * Cloth, \$1.75. ● Item 399-A L.C. card 77-603912 D 207.10/2: T 68
- 16306 Monitors of U.S. Navy, 1861-1937 [with bibliography: by Richard H. Weber], [1969.] cover title, 48 p. il. 4° ([Naval History Division.]) [Text and other illustrations on p. 2-3 of cover.] * Paper, 50c. ● Item 399-A L.C. card 77-603596 D 207.10/2: M 74
- 16307 United States naval history, bibliography, 5th edition, 1969. vi+34 p. il. 4° * Paper, 35c. ● Item 399-B L.C. card 71-604014 D 207.11: H 62/969
- 16308 United States Navy, 1969. cover title, 40 p. il. 1° (Naval History Division.) [Text and other illustrations on p. 1-4 of cover.] * Paper, 45c. ● Item 399-A L.C. card 76-604121 D 207.10/2: N 22/2

NAVAL ORDNANCE SYSTEMS COMMAND, Defense Dept.

Washington, DC 20360

NOTE.—The Naval Ordnance Systems Command was established May 1, 1966, in the reorganization of the Navy Department. The Naval Weapons Bureau was established on the same date and some of its field activities and employees assigned to the Naval Ordnance Systems Command.

♠For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 83

GOVERNMENT PUBLICATIONS

- 16309 Technical inspection manual, quality control chart technique [with bibliography]. June 1, 1969. [109] p. il. 4° (NAVORD OD 42565.) ([Supercedes NAVWEPS 00-15PA-2, Technical inspection manual, v. 1, sec. 2; Quality control chart technique. Published by direction of Commander, Naval Ordnance Systems Command.]) * Paper, \$1.00. ● Item 409-A
D 215.6/2 : Q 2

NAVAL PERSONNEL BUREAU, Defense Dept.

Washington, DC 20390

- 16310 Aviation machinist's mate J 1 & C [with reading list; prepared by Navy Training Publications Center, Millington, Tenn.] [1969 edition.] [1969.] cover title, iv+223 p. il. 4° (Rate training manual; NAVPERS 10313-B.) ‡ ● Item 404
L.C. card 75-604058 D 208.11 : Av 5/32/969
- 16311 Career planner, United States Navy occupational handbook; manual for civilian guidance counselors, schools and libraries, also employment and youth agencies. 6th edition. 1969. [9]+137+[2] p. il. 4° (RAD 68134.) [Title on cover is: Navy career planner.] † ● Item 403-A
L.C. card 59-61835 D 208.6/3 : Oc 1/969
- 16312 Photographer's mate 1 & C [with reading list; produced by Navy Training Publications Center, Millington, Tenn.]. [1969 edition.] [1969.] cover title, v+473 p. il. 4° (Rate training manual; NAVPERS 10375-B.) [Contains copyright material.] * Paper, \$4.25. ● Item 404
L.C. card 64-62897 D 208.11 : P 56/5/969
- 16313 Radioman 1 & C; [prepared by Training Publications Division, Naval Personnel Program Support Activity]. [1st edition 1950, revised 1969.] [1969.] cover title, iii+202 p. il. 4° (NAVPERS 10229-E; Rate training manual.) [Portions of chap. 5 used by permission of Automatic Electric Company.] * Paper, \$2.00. ● Item 404
L.C. card 63-62279 D 208.11 : R 11/2/969

NAVAL RESEARCH OFFICE, Defense Dept.

Washington, DC 20390

NRL reports. (Naval Research Laboratory.) D 210.8:(nos.)

- 16314 6851. Standard method for 1-inch dynamic tear test [with list of references; by] P. P. Puzak and E. A. Lange. Feb. 13, 1969. cover title, ii+20 p. ([NRL problems M01-25 and F01-17.]) † Paper, \$3.00 (AD 692382).
- 16315 6919. Computer-plotted stereographic projections [with list of references; by] E. A. Metzbowler. July 7, 1969. cover title, ii+48 p. il. 4° ([NRL problem M01-08; Project RR 007-01-46-5406.]) † Paper, \$3.00 (AD 691769).
- 16316 6922. Probability density functions of n vectors added with random directions [with list of references; by] Edward L. Wright. July 17, 1969. cover title, ii+12 p. il. 4° ([NRL problem SO 1-12 and SO 1-40A, projects RF 101-03-44-4059, RF 05-121-401-4070, and SF 101-03, 15-8181.]) † Paper, \$3.00 (AD 691770).
- 16317 6931. Effect of adsorbed monomolecular films evaporation of volatile organic liquids [with list of references; by] Marianne K. Bennett [and others]. July 1969. cover title, ii+16 p. il. 4° ([NRL problem C02-10; Project RR 001-01-43-4751.]) † Paper, \$3.00 (AD 692383).

NAVY DEPARTMENT, Defense Dept.

Washington, DC 20350

- 16318 Physics of sound in the sea. Reprinted 1969. x+566 p. il. 1 pl. 4° ([NAV MAT P-9675]; Headquarters Naval Material Command.) [Originally issued as summary technical report of Division 6, NDRC, v. 8, 1946.] * Cloth, \$7.00. ● Item 370
L.C. card 74-603914 D 201.2 : So 8
- 16319 Safety equipment manual [with list of references]. July 1969. vii+61 p. il. 4° (NAVMAT P-10470; [Safety Division, Naval Material Command.]) * Paper, \$1.50. ● Item 370-A D 201.6/12 : Sa 1

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1969

- 16320 Your Navy, from viewpoint of nation's finest artists [lithographic prints, announcement and order form]. July 1969. [18] p. il. narrow 8° (NAV SOP-3079.) † ● Item 373-B D 201.9: 969

PATENT OFFICE, Commerce Dept. Washington, DC 20231

- 16321 Decisions of Commissioner of Patents and of United States Courts in patent and trademark cases, compiled from v. 846-857, inclusive, of Official gazette of Patent Office during 1968, 1969. ix+193 p. [Also issued as H. doc. 240, 90th Cong., 2d sess.] * Cloth, \$2.50. ● Item 253 C 21.6: 968
L.C. card 23-7315
- 16322 Index of patents issued from Patent Office, 1968: pt. 2, Index to subjects of inventions. 1969. 209 p. large 8° * Cloth, \$4.50. ● Item 255 C 21.5/2: 968/pt.2
L.C. card 30-26211
- 16323 Manual of classification [replacement pages]; Oct. 1969. [1969.] [24] p. 4° [Includes list of replacement pages. Issued in looseleaf form.] * Paper, \$11.00 (including basic manual index and supplementary material for an indefinite period); \$3.00 additional for foreign mailing. ● Item 258 C 21.12: 967/rev. pages-9

POST OFFICE DEPARTMENT Washington, DC 20260

[Commemorative stamp posters.]

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

- 16324 6-cent Christmas postage stamp, available at your local post office, Nov. 4, 1969. 1969. 10.5x8 in. P 1.26/2: C 46/969
- 16325 6-cent Dwight D. Eisenhower commemorative postage stamp will first be placed on sale Oct. 14, 1969, Abilene, Kans. 1969. 10.5x8 in. P 1.26/2: Ei 8
- 16326 Directory of post offices (with ZIP codes); [prepared by Bureau of Planning and Marketing]. [July 1969.] xv+485 p. 4° ([Publication 26.]) [Revised annually.] * Paper, \$4.25. ● Item 839 P 1.10/4: 969
L.C. card 55-61389

Facilities handbook, series S

- 16327 14. Vehicle maintenance at non-personnel offices. Sept. 17, 1969. [17] p. il. 4° [Includes transmittal letter 19. Issued in looseleaf form.] † ● Item 843 P 1.31/3: 14/3/trans.19
- 16328 How you can curb pandering advertisements. June 1969. [4] p. narrow 12° (POD publication 123 (Rev.)) * Paper, \$5.00 per 100. ● Item 837 P 1.2: P 19/3
- 16329 International mail. July 1969. 12 p. (POD publication 51.) † ● Item 837 P 1.2: In 8/2/969
L.C. card 28-26826
- 16330 National ZIP code directory, 1969-70. [July 1969.] xi+1695 p. 4° ([POD publication 65; Bureau of Planning and Marketing.]) * Paper, \$10.50. ● Item 839 P 1.10/8: 969
L.C. card 66-60919
- 16331 Remarks by Postmaster General Winton M. Blount at 1st day ceremonies Eisenhower stamp dedication, Abilene, Kans., Oct. 14, 1969. 1969. 5 leaves, 4° (Information Service, General release 149.) † P 1.27: B 62/3

[State postal map].

- 16332 Texas (western section), Apr. 1, 1969. Scale 40 m.=2.1 in. [1969.] 32.5x22 in. * Paper, 35c. P 1.39/2: T 31.2/969

☞For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

PRESIDENT OF UNITED STATES

Washington, DC 20501

- 16333 Membership directory [President's Committee on Employment of the Handicapped]: pt. 1. Committees. [Aug. 1969.] cover title, [1]+i+91 p. 4° [Edge index on p. 4 of cover. Issued with perforations.] † President's Committee on Employment of the Handicapped, 7131 Department of Labor Building, Washington, DC 20210 ● Item 766-C
PrEx 1.10: M 51/pt.1

PUBLIC BUILDINGS SERVICE, General Services Administration Washington, DC 20405

- 16334 Guide for space planning & layout. [1969.] vii+38 p. 18 pl. 4° ([Federal stock number 7610-145-0168.]) † ● Item 580 GS 6.6/2: Sp 1

PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept. Washington, DC 20201

- 16335 Accident protection [remarks by Thomas F. Williams, Director, Office of Public Affairs, Consumer Protection and Environmental Health Service, Health, Education, and Welfare Department, presented at National Safety Council's Annual Home Safety Spring Workshop, Washington, D.C., May 26, 1969]. [1969.] cover title, [1]+15+[1] p. narrow 8° † ● Item 481-D FS 2.30: W 67/7

- 16336 APTIC bulletin. (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration, Office of Technical Information and Publications, Air Pollution Technical Information Center, Raleigh, N.C. 27605.) [Irregular. Issued with perforations.] † ● Item 483-S FS 2.93/6: (v.nos.& nos.)
v. 2, no. 3— [1969.]—

- 16337 As CPEHS sees it, [address] by Charles C. Johnson, jr., Administrator, Consumer Protection and Environmental Health Service, Public Health Service, Department of Health, Education, and Welfare, for presentation at Symposium on Food Standards, American Medical Association, Chicago, Ill., June 27, 1969; (read by J. Kenneth Kirk, Associate Commissioner for Compliance, Food and Drug Administration). [1969.] 9 p. 4° † ● Item 481-D FS 2.30: J 63/19

- 16338 Comprehensive community mental health center, annotated bibliography; prepared by Carole Doughton Vacher. [1969.] v+41 p. ([Publication 1980; National Clearinghouse for Mental Health Information, Health Services and Mental Health Administration], National Institute of Mental Health.) * Paper, 30c. ● Item 506-A
L.C. card 71-604081 FS 2.22/13: M 52/S

- 16339 Dental services for American Indians and Alaska natives, annual report, fiscal year 1969. [1969.] viii+52 p. il. oblong 8° ([Health Services and Mental Health Administration, Indian Health Service.]) † ● Item 486-F
L.C. card 75-604090 FS 2.86/3: 969

- 16340 Don't guess about drugs when you can have the facts, description and catalog of current drug abuse information-education materials available from National Institute of Mental Health. [1969.] 19 p. il. 4° ([Publication 1006; National Clearinghouse for Mental Health Information, Health Services and Mental Health Administration, National Institute of Mental Health.]) * Paper, 20c. ● Item 506-A
L.C. card 70-604062 FS 2.22/13: D 84/2

Emergency health series.

- 16341 F-19. Packaged disaster hospital, series 10,000 mod. A, component listing and storage data, errata sheet, corrected alphabetical index. July 1969. [1]+53-62 p. 4° (Publication 1071-F-19.) [Health Services and Mental Health Administration, Division of Emergency Health Services.] † ● Item 486-E FS 2.302.F-19/errata

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16342 Emergency health services digest, no. 1. 1969. v+53 p. ([Publication 1071-D-8]; Health Services and Mental Health Administration, Division of Emergency Health Services.) * Paper, 40c. ● Item 483-R FS 2.320:1
- Federal employee health series.
- 16343 6. Glaucoma screening in your health unit. [1969.] [4] p. il. narrow 8° ([Publication 1927; Health Services and Mental Health Administration, Federal Health Programs Service, Division of Federal Employee Health.]) †
● Item 486 FS 2.50/3:6
- 16344 Grants-in-aid and other financial assistance programs, Health Services and Mental Health Administration: prepared by Office of Grants Management, Office of Administrator. 1968-69 edition. [1969.] vii+62 p. 1 pl. ([Publication 1945.]) * Paper, 50c. ● Item 483-P
L.C. card 78-604099 FS 2.317:968-69
- 16345 Guidelines for air pollution planning grants. Aug. 1969. [5]+10 p. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 496-A FS 2.6/2: Ai 7/4
- Health information series.
- 16346 100. Parkinson's disease, hope through research: [prepared by Information Office, National Institute of Neurological Diseases and Stroke], National Institutes of Health. [Revised 1969.] [1969.] 20 p. il. narrow 8° ([Publication 811.]) * Paper, 20c. ● Item 486 FS 2.50:100/4
- 16347 How to plan drug abuse education workshop for teachers. Nov. 1969. iv+35 p. ([Publication 1962; Health Services and Mental Health Administration], National Institutes of Mental Health.) [Publication number incorrectly given on p. 4 of cover as 1162.] * Paper, 25c. ● Item 507-H
L.C. card 72-603927 FS 2.22/15: D 84
- 16348 Humane society or environmental chaos [address by Charles C. Johnson, jr. Administrator, Consumer Protection and Environmental Health Service, presented at conference sponsored by National Tuberculosis and Respiratory Disease Association, Miami Beach, Fla., May 25, 1969. [1969.] cover title, 16 p. narrow 8° † ● Item 481-D FS 2.30: J 63/16
- 16349 Information and eligibility criteria, National Institutes of Health research fellowships. 4 p. 4° † ● Item 485 FS 2.2: F 33
- 16350 International family planning, bibliography; by David L. Kasdon. 1969. v+62 p. ([Publication 1917; National Clearinghouse for Mental Health Information, Health Services and Mental Health Administration], National Institute of Mental Health.) * Paper, 35c. ● Item 506-A
L.C. card 73-604079 FS 2.22/13: F 21/2
- 16351 A look at Bureau of Occupational Safety and Health. [1969.] 15 p. il. oblong 24° ([Consumer protection and Environmental Health Service, Environmental Control Administration, Bureau of Occupational Safety and Health.]) [1969.] cover title, [1]+9 p. 4° ([Health Service and Mental Health.]) * Paper, 20c. ● Item 485 FS 2.2: Oc 1/15
- 16352 Marriage and divorce, bibliography of statistical studies. [Revised July 1969.] [1969.] cover title, [1]+9 p. 4° ([Health Services and Mental Health Administration, National Center for Health Statistics [Division of Vital Statistics.]) ‡
L.C. card 79-604103 FS 2.121: M 34/969
- 16353 Massachusetts Kidney Disease Planning Project, 1st year's report, July 1968 [with lists of references.]. [1969.] x+74 p. il. ([Publication 1918]; Health Services and Mental Health Administration, Regional Medical Programs Service, Division of Chronic Disease Programs, Kidney Disease Control Program.) [Report based on work carried out through contract PH 86-67-278 between Tufts University and Department of Health, Education, and Welfare, Public Health Service.] * Paper, 40c. ● Item 485
L.C. card 74-603886 S 2.2: K 54/5

GOVERNMENT PUBLICATIONS

- 16354 Mental health programs for the deaf and the hearing impaired. [1969.] 16 p. il. oblong 12° (National Center for Mental Health Services, Training, and Research, Saint Elizabeths Hospital, Division of Clinical and Community Services.) * Paper, 15c. ● Item 507 FS 2.22: D 35
- 16355 Morphology of diagnostic stages of intestinal parasites of man [with list of references; by] M. M. Brooke, D. M. Melvin. June 1969. [2]+iii+26 p. il. 4° ([Publication 1966; Health Services and Mental Health Administration, National Communicable Disease Center, Laboratory Division, Licensure and Development Branch, Laboratory Consultation and Development Section, Atlanta, Ga.]) * Paper, \$1.00. ● Item 505-A L.C. card 71-604057 FS 2.60/7: In 8
- National Air Pollution Control Administration publication, AP (series). (Consumer Protection and Environmental Health Service.) ● Item 483.E FS 2.93/3: (nos.)
- 16356 49. Air quality criteria for particulate matter [with lists of references]. Jan. 1969. [458] p. il. 4° * Paper, \$1.75. L.C. card 75-601265
- 16357 50. Air quality criteria for sulfur oxides [with lists of references]. Jan. 1969. [382] p. il. 4° † * Paper, \$1.50. L.C. card 79-601692
- National Air Pollution Control Administration publication APTD (series). (Consumer Protection and Environmental Health Service.) ● Item 483.E FS 2.93/3-2: (nos.)
- 16358 69-5. 1965 data tabulations and summaries, continuous air monitoring projects, National Air Surveillance Networks. May 1969. vi+526 p. 4° † Office of Technical Information and Publications, National Air Pollution Control Administration, U.S. Dept. of Health, Education, and Welfare, 801 North Randolph Street, Arlington, VA 22203.
- 16359 69-6. 1967 data tabulations and summaries, continuous air monitoring projects, National Air Surveillance Networks. Chicago. Apr. 1969. vi+99 p. il. 4° † Office of Technical Information and Publications, National Air Pollution Control Administration, U.S. Department of Health, Education, and Welfare, Ballston Center Tower no. 2, 801 North Randolph Street, Arlington, VA 22203
- 16360 69 10. 1967 data tabulations and summaries continuous air monitoring projects, National Air Surveillance Networks. St. Louis. Apr. 1969. vi+100 p. il. 4° † Office of Technical Information and Publications, National Air Pollution Control Administration, U.S. Department of Health, Education, and Welfare, Ballston Center Tower no. 2, 801 North Randolph Street, Arlington, VA 22203
- 16361 69-11. 1967 data tabulations and summaries, continuous air monitoring projects, National Air Surveillance Networks. Washington, D.C. Apr. 1969. vi+101 p. il. 4° † Office of Technical Information and Publications, National Air Pollution Control Administration, U.S. Department of Health, Education, and Welfare Ballston Center Tower no. 2, 801 North Randolph Street, Arlington, VA 22203
- 16362 National Communicable Disease Center salmonella surveillance, annual summary, 1968. [Sept. 22. 1969.] [3]+7+[20] p. il. 4° (Health Services and Mental Health Administration, Bureau of Disease Prevention and Environmental Control.) [Issued with perforations.] ‡ FS 2.60/12-2: 968
- 16363 Nursing careers in mental health. [Revised 1969.] [1969.] cover title, 16 p. il. 4° ([Publication 1051; Health Services and Mental Health Administration, National Institute of Mental Health.]) [Text on p. 2 of cover.] † ● Item 507 FS 2.22: N 93/4/969
- 16364 Occupational health, new approaches to old problems, [address by Charles C. Johnson, jr., Administrator, Consumer Protection and Environmental Health Service, presented at Occupational Safety and Health Conference, sponsored by Industrial Union Department, AFL-CIO, June 4, 1969, Washington, D.C. [1969.] cover title, 18 p. narrow 8° ([Consumer Protection and Environmental Health Service.]) † ● Item 481-D FS 2.30: J 63/17

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

†Official Use. Not Available

- 16365 Population dose from X-rays, U.S. 1964, estimates of gonad and genetically significant dose from Public Health Service X-ray exposure study; prepared by Population Exposure Studies Section, Bureau of Radiological Health. [Oct. 1969.] xiv+144 p. il. ([Publication 2001]; Consumer Protection and Environmental Health Service, Environmental Control Administration.) * Paper, \$1.25. ● Item 485
L.C. card 72-604092 FS 2.2: X 7/6
- 16366 Prevent urinary tract infections in your hospital [with list of references]. [1]+3 p. il. 4° ([Publication 1871; Health Services and Mental Health Administration, Regional Medical Programs Service, Kidney Disease Control Program.]) † ● Item 485 FS 2.2: Ur 3
- 16367 Progress in State and local air pollution control under Clean air act; by Charles D. Yaffe. [1969.] [3]+4 p. (Division of Control Agency Development, National Air Pollution Control Administration, Consumer Protection and Environmental Health Service.) [Presented at American Industrial Hygiene Conference, Denver, Colo., May 14, 1969.] †
FS 2.30: Y 1
- 16368 Remarks by Charles C. Johnson, jr., Administrator, Consumer Protection and Environmental Health Service, Public Health Service, Department of Health, Education, and Welfare for presentation of American Water Works Association, Chesapeake Section, Ocean City, Md., Sept. 4, 1969. [1969.] 2+19 p. 4° † ● Item 481-D FS 2.30: J 63/18
- 16369 Report for consultation on metropolitan Dayton Intrastate Air Quality Control Region [with list of references]. Sept. 1969. [9]+69 p. il. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 483-E
L.C. card 77-600866 FS 2.93/5: D 33
- 16370 Representative construction costs of Hill-Burton hospitals and related health facilities. Jan.-June 1969. [1969.] iv+[1]+56 p. oblong 12° (Health Services and Mental Health Administration, Health Facilities Planning and Construction Service, Office of Architecture and Engineering, Silver Spring, Md.) ‡ FS 2.74/6: 969
- 16371 Some aspects of air pollution, odors, visibility, and art; by Brian W. Peckham. [1969.] [3]+13 p. (National Air Pollution Control Administration, Consumer Protection and Environmental Health Service.) [Based on presentation made at seminar, Economics of Air and Water Pollution, sponsored by Water Resources Research Center, Virginia Polytechnic Institute, Blacksburg, Va., Apr. 28-30, 1969.] † FS 2.2: Ai 7/51
- 16372 Suicide among American Indians, 2 workshops, Aberdeen, S. Dak., Sept. 1967, Lewiston, Mont., Nov. 1967, sponsored by Health Services and Mental Health Administration, National Institute of Mental Health, Indian Health Services [papers, with bibliographies]. [June 1969.] iii+37 p. 4° ([Publication 1903; National Clearinghouse for Mental Health Information.]) * Paper, 50c. ● Item 507
L.C. card 78-604080 FS 2.22: Su 3/2
- 16373 Systems study of solid waste management in Fresno area, final report on solid waste management demonstration [with lists of references]. 1969. [411] p. il. 4° ([Publication 1959]; Bureau of Solid Waste Management, Consumer Protection and Environmental Health Service, Environmental Control Administration.) [Text on p. 2 and 4 of cover. This report SW-5d was prepared for California Department of Health by Aerojet-General Corporation in cooperation with Engineering-Science, Inc., supported in part by demonstration grant (D01-U1-00021).] * Paper, \$4.00. ● Item 485
L.C. card 78-602019 FS 2.2: So 4/15

GOVERNMENT PUBLICATIONS

- 16374 Technical-economic study of solid waste disposal needs and practices, 1969. [717] p. il. 4° ([Publication 1886]; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Solid Waste Management.) [Text on p. 2 of cover. This report (SW-7c) was written by Combustion Engineering, Inc., Windsor, Conn., under contract PH 86-66-163.] † • Item 485
L.C. card 73-604044

FS 2.2: So 4/21

Vital and health statistics: Series 10, Data from National Health Survey. (National Center for Health Statistics, Health Services and Mental Health Administration.) • Item 500-E

FS 2.85/2: 10/(nos.)

- 16375 56. Differentials in health characteristics by color, United States, July 1955-June 1967 [with list of references; by Mary Lou Bauer]. Oct. 1969. vi+61 p. il. 4° ([Publication 1000, series 10, no. 56; Division of Health Interview Statistics.]) [Prepared in cooperation with Census Bureau.] * Paper, 65c.
L.C. card 71-601414

- 16376 57. Types of injuries, incidence and associated disability, United States, July 1965-June 1967; by Charles S. Wilder. Oct. 1969. iv+54 p. il. 4° ([Publication 1000, series 10, no. 57; Division of Health Interview Statistics.]) [Prepared in cooperation with Bureau of Census.] * Paper, 60c.
L.C. card 75-601415

— Series 11, Data from National Health Survey. (National Center for Health Statistics.)

- 16377 33. Selected examination findings related to periodontal disease among adults, United States, 1960-62 [with list of references; by James E. Kelly and Arnold Engel. Sept. 1969. iv+31 p. il. 4° ([Publication 1000, series 11, no. 33; Division of Health Examination Statistics.]) [Prepared in cooperation with Bureau of Census.] * Paper, 40c. • Item 500-E
L.C. card 79-601388

FS 2.85/2: 11/no.33

— Series 21, Data from National Vital Statistics System. (Health Services and Mental Health Administration, National Center for Health Statistics.)

- 16378 17. Divorce statistics analysis, United States, 1964-1965 [with list of references; by Alexander A. Plateris]. Oct. 1969. [4]+60 p. il. 4° ([Publication 1000, series 21, no. 17; Division of Vital Statistics.]) * Paper, 60c. • Item 500-E
L.C. card 73-604123

FS 2.85/2: 21/no.17

- 16379 Volunteer services in mental health, annotated bibliography, 1955-59; prepared by Francine Sobey. [1969.] viii+96 p. ([Publication 1002; National Clearinghouse for Mental Health Information, Health Services and Mental Health Administration, National Institute of Mental Health.]) * Paper, \$1.00. • Item 506-A

L.C. card 75-604082

FS 2.22/13: V 88

PUBLIC ROADS BUREAU, Transportation Dept. Washington, DC 20591

- 16380 Analysis and modeling of relationships between accidents and geometric and traffic characteristics of interstate system [with bibliography]; prepared by Julie Anna Cirillo, Stephen K. Dietz, Richard L. Beatty. Aug. 1969. v+95 p. il. oblong 8° ([Research and development report]; Office of Research and Development, Traffic Systems Division.) * Paper, \$1.00. • Item 265
L.C. card 76-604113

TD 2.102: Ac 2/2

BPR program (series). ‡

TD 2.117: (letters-nos.)

- 16381 HY-2. [Electronic computer program for] hydraulic analysis of pipe-arch culverts; developed by Engineering Systems Division, Office of Research and Development in cooperation with Hydraulic Branch, Bridge Division, Office of Engineering and Operations. Revised May 1969. [1969.] iv+48 p. il. 4° ([Office of Research & Development.])
- 16382 S-3. [Electronic computer program for] stability analysis of slopes and embankment foundations; developed by Charles E. Carlson and William P. Hofmann. 2d printing. Sept. 1969. iii+60 p. il. 4° ([Office of Research and Development.])

- 16383 Challenging opportunities in right-of-way training program in Bureau of Public Roads. Aug. 1969. [8] p. il. narrow 8° ‡

TD 2.102: T 68/2/969

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16384 Development of multiple use facilities on highway right-of-way, interstate route 40 in Oklahoma City, Okla.: [prepared by Oklahoma Division Office]. Aug. 1969. [2] leaves+18 p. il. 4° ‡ TD 2.121/2: OK 4
- 16385 Engineers, the bridge to your success. [opportunities for young engineers in Bureau of Public Roads]. [Sept. 1969.] cover title, 20 p. il. oblong 12" * Paper, 45c. ● Item 265 TD 2.102: En 3/969
- 16386 Evaluating urban transportation systems. Aug. 1969. cover title, ii+23 p. 4° † TD 2.102: Ur 1/3
Highway planning technical report.
- 16387 14. Network analysis series: 2. Use of effective speed as evaluation criterion [with bibliography for urban transportation network evaluation and related topics; by T. J. Hillegass]. Aug. 1969. cover title, i+12+5 p. il. 4° ‡ TD 2.120: 14
- 16388 Opportunities as professional highway engineer in Bureau of Public Roads. Aug. 1969. [8] p. il. narrow 8° ‡ TD 2.102: II 53/969
- 16389 Standard specifications for construction of roads and bridges on Federal highway projects. 1969. viii+451 p. 12" (FP-69.) * Fabrikoid, \$3.50. ● Item 265-A TD 2.108: R 53/2/969
L.C. card 76-604105
- 16390 Strength and serviceability criteria, reinforced concrete bridge members, ultimate design [with list of references]; reported by E. G. Pauley, 2d edition. Aug. 1969. [1]+97 p. il. (Bridge Division, Office of Engineering and Operations.) * Paper, 45c. ● Item 265-A TD 2.108: B 76/2
L.C. card 73-604107

RECLAMATION BUREAU, Interior Dept.
Washington, DC 20240

- 16391 Central Valley project, Calif. [1969.] [14] p. il. narrow 8° † ● Item 660 I 27.2: C 33/4/969
Research reports. (Water resources technical publication.) ● Item 664-B I 27.54: (nos.)
- 16392 19. Investigations of plastic films for canal linings; by M. E. Hickey. [1969.] vi+35 p. il. 4° (Chemical Engineering Branch, Division of Research, Office of Chief Engineer.) * Paper, 50c. L.C. card 74-604020
- 16393 20. Biogeochemistry of Delta-Mendota Canal, Central Valley project, Calif. [with list of references]; by F. M. Swain and N. P. Prokopovich. [1969.] vi+42 p. il. 4° * Paper, 50c. L.C. card 72-604025
- 16394 Tiber Dam, auxiliary outlet works, paper to be presented at Hydraulics Division 17th annual Specialty Conference, American Society of Civil Engineers, Utah State University, Logan, Utah, Aug. 20-22, 1969; by M. A. Jabara and W. E. Wagner. [1969.] cover title, 8 leaves+12 pl. 4° (Office of Chief Engineer, Denver, Colo.) ‡ I 27.2: T 43/2

RENEGOTIATION BOARD
Washington, DC 20446

- 16395 Renegotiation Board regulations amdt. 25. [1969.] [92] p. 4° [Issued in looseleaf form.] * Paper, \$6.50 (including basic regulations and supplements or revisions for indefinite period); \$1.75 additional for foreign mailing. ● Item 308 RnB 1.6/2: 964/amdt.25

SCIENCE AND TECHNOLOGY OFFICE, Executive Office of the
President, Washington, DC 20506

- 16396 Federal program in population research, report to Federal Council for Science and Technology, prepared by Ad Hoc Group on Population Research, pt. 1 and 2. July 1, 1969. [1]+iii+115 p. il. 4° * Paper, \$1.25. ● Item 857-F-1 PrEx 8.2: P 81
L.C. card 75-604102

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 16397 MHD for central station power generation, plan for action; prepared by Panel on Magnetohydrodynamics (MHD). June 1969. [7]+35 p. il. (Energy Policy Staff.) [Includes list of articles and papers reviewed.] * Paper, 30c. ● Item S57-F-1
L.C. card 78-603931 PrEx 8.2: P 87
- 16398 Solid waste management, comprehensive assessment of solid waste problems, practices, and needs; prepared by Ad Hoc Group. May 1969. cover title, ix+111 p. il. 4° * Paper, \$1.25. ● Item S57-F-1
L.C. card 79-603926 PrEx 8.2: So 4
- 16399 Universities and environmental quality, commitment to problem focused education, report to President's Environmental Quality Council; by John S. Steinhart and Stacie Cherniack. Sept. 1969. [7]+49+22 p. 4° * Paper, 70c. ● Item S57-F-1
L.C. card 73-604087 PrEx 8.2: En 8

SHIP STRUCTURE COMMITTEE Washington, DC 20226

SSC (series).

- 16400 199. Study of factors which affect adequacy of high-strength low-alloy steel weldments for cargo ship hulls [with bibliography]; by A. L. Lowenberg [and others]. Aug. 1969. iv+49+[2] p. il. 4° (Southwest Research Institute, San Antonio, Tex.) [1st technical report on project SR-177. High-strength, low-alloy steel weldments, to Ship Structure Committee, under Department of Navy, NAVSEC contract N00024-67-C5416. Text on p. 2 of cover.] Φ Paper, \$3.00. Y 3.Sh 6: SSC-199

SMALL BUSINESS ADMINISTRATION Washington, DC 20416

Small business bibliography.

- 16401 41. Mobile homes and parks; [by John M. Martin]. June 1969. 11 p. il. 4° †
● Item 901-K SBA 1.3: 41/5
- Small business management series.
- 16402 3. Human relations in small business [with list of publications for further study]; by Martin M. Bruce. 3d edition. 1969. v+38 p. ([Procurement and Management Assistance, Office of Management Assistance.]) * Paper, 30c.
● Item 901-C
L.C. card 79-603784 SBA 1.12: 3/2

SMITHSONIAN INSTITUTION Washington, DC 20560

Smithsonian contributions to botany.

- 16403 2. Monograph on folia anatomy of genera Connellia, Cottendorfia, and Navia (Bromeliaceae); [by] Harold Robinson. 1969. [2]+41 p. il. 4° * Paper, 50c. ● Item 910-E
L.C. card 73-604095 SI 1.29: 2

Smithsonian contributions to zoology.

- 16404 7. Recent Ostracodes of family Pontocyprididae, chiefly from Indian Ocean [with list of literature cited: by] Rosalie F. Maddocks. 1969. iii+56 p. il. 4° * Paper, 65c. ● Item 910-D
L.C. card 77-604053 SI 1.27: 7

- 16405 Smithsonian International Exchange Service. 1968 annual report; [by J. A. Collins]. 1969. cover title, 65-66+viii p. [From Smithsonian year 1968. report of Smithsonian Institution for fiscal year 1968.] †
L.C. card S15-5a SI 1.1/a 3: 968

SOCIAL AND REHABILITATION SERVICE, Health, Education, and Welfare Dept., Washington, DC 20201

- 16406 America's best hope, Juvenile delinquency prevention and control act of 1968. [1969.] cover title, 8 p. narrow 8° ([Office of Juvenile Delinquency and Youth Development.]) † ● Item 512-A-1 FS 17.2: J 98

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16407 Design and construction of buildings financed with Federal funds, fact sheet on Public law 90-480. [1969.] [6] p. narrow 8° (Rehabilitation Services Administration.) † ● Item 512-A-1 FS 17.2: B 86
- 16408 Public welfare personnel, annual statistical data, fiscal year 1968. [June 1968.] [19] p. 4° (NCSS report E-2 (fy 1968); National Center for Social Statistics.) †
L.C. card 76-602963 FS 17.13/2: 968

**SOCIAL SECURITY ADMINISTRATION, Health, Education,
and Welfare Dept., Washington, DC 20201**

- Actuarial notes. † FS 3.19/2: (nos.)
- 16409 58. Disability incidence rates under OASDI system for disability onsets occurring in 1956-64; by Robert J. Myers and Francisco Bayo. Aug. 1969. [7] p. 4°
- 16410 59. Retirement experience of old-age beneficiaries, 1958-68; by Francisco Bayo. Aug. 1969. [3] p. 4°
- Actuarial study.
- 16411 67. Present value of DI benefits in current payment status, 1968; by Francisco Bayo and Orlo R. Nichols. Aug. 1969. [2]+iii+15 p. 4° (Office of Actuary.) † FS 3.19: 67
- 16412 Current data from medicare program, by Dorothy P. Rice, Office of Research and Statistics, Social Security Administration. [1967.] [30] p. 4° [Paper presented at Statistics and Medical Care Sections, meeting of American Public Health Association, Miami Beach, Fla., Oct. 24, 1967.] † FS 3.10: R 36
- HIR (series).
- 16413 27. Social security rulings relating to Federal Health insurance, Federal health insurance for the aged. [Sept. 1968.] cover title, [27] p. 4° [Reprint of previously published Social Security rulings relating to health insurance matters.] † FS 3.55: 27
- 16414 Monthly benefit statistics: Old-age, survivors, disability, and health insurance, fiscal year benefit data. Aug. 28, 1969. [2] p. 4° (Office of Research and Statistics.) † FS 3.28/6-3: 969
- 16415 Regulation no. 1 (as amended) disclosure of official records and information. 1969. ii+13 p. (Pt. 401, chap. 3, title 20, Code of Federal regulations.) † ● Item 520 FS 3.6: 1/10

Research and statistics note, 1969 (series). (Office of Research and Statistics.) † FS 3.28/2: 969/ (nos.)

- 16416 14. Medical care price changes, medicare's first 3 years; by Loucele A. Horowitz. Aug. 14, 1969. [7] p. 4°
- 16417 15. Some facts about employment of widowed mothers; by Lenore E. Bixby and Judith S. Bretz. Aug. 20, 1969. 11+[9] p. 4°
- 16418 16. National health expenditures, 1929-67; by Barbara S. Cooper. Sept. 29, 1969. [8] p. 4°
- 16419 17. Independent health insurance plans in 1968, preliminary estimates; by Louis S. Reed and Willine Carr. Oct. 6, 1969. 3+[8] p. 4°

SSI (series). † ● Item 523-B FS 3.52: (nos.)

- 16420 38. \$50 annual deductible under medical insurance part of Medicare. [Mar. 1969.] [+] p.
- 16421 70. Coverage of blood under medicare. [Mar. 1969.] [4] p.

**SOIL CONSERVATION SERVICE, Agriculture Dept.
Washington, DC 20250**

- 16422 Fall water supply summary for Nevada and Federal-State-private cooperative snow surveys [as of Oct. 1, 1969]; report prepared by Donald W. McAndrew and Roy E. Malsor, Jr. [1969.] [1]+10 leaves, il. 4° [Prepared in cooperation with Nevada Department of Conservation and Natural Resources, Division of Water Resources. Text on p. 2-4 of cover.] † Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N.W. Glisan, Portland, OR 97209
A 57.46/14: 969
- 16423 Habitat management for blue grouse. [Boise, Idaho, June 1969.] 2 p. il. 4° † A 57.56: G 91

GOVERNMENT PUBLICATIONS

- 16424 Habitat management for bobwhite. Boise, Idaho, June 1969. 1 p. il. 4° ‡
A 57.56: B 63
- 16425 Habitat management for California quail. [Boise, Idaho, June 1969.]
2 p. il. 4° ‡ A 57.56: Q 2
- 16426 Habitat management for Canada goose. [Boise, Idaho, June 1969.] 2 p.
il. 4° ‡ A 57.56: C 16
- 16427 Habitat management for chukars. Boise, Idaho, June 1969. 1 p. il. 4° ‡
A 57.56: C 47
- 16428 Habitat management for gray partridge. [Boise, Idaho, June 1969.] 1 p. il.
4° ‡ A 57.56: P 25
- 16429 Habitat management for mallards. [Boise, Idaho, June 1969.] 2 p. il. 4° ‡
A 57.56: M 29
- 16430 Habitat management for mourning doves. [Boise, Idaho, June 1969.] 2 p.
il. 4° ‡ A 57.56: M 86
- 16431 Habitat management for pronghorn antelope. [Boise, Idaho, June 1969.]
2 p. il. 4° ‡ A 57.56: P 94
- 16432 Habitat management for ring-necked pheasants. [Boise, Idaho, June 1969.]
2 p. il. 4° ‡ A 57.56: P 49
- 16433 Habitat management for ruffed grouse. [Boise, Idaho, June 1969.] 2 p. il.
4° ‡ A 57.56: G 91/2
- 16434 Habitat management for sage grouse. [Boise, Idaho, June 1969.] 2 p. il.
4° ‡ A 57.56: G 91/3
- 16435 Habitat management for wood duck. Boise, Idaho, June 1959. 1 p. il. 4° ‡
A 57.56: W 85
- 16436 Plant materials annual progress report: Louisiana 1968; [by Thomas A.
Bown]. [1969.] 4 leaves, 4° ‡ A 57.55: L 93/968
- 16437 Plant materials annual progress report: Mississippi 1968; [by Thomas A.
Bown]. [June 1969.] 5 leaves, 4° ‡ A 57.55: M 69 i/968
- 16438 Soil survey: Schoharie County, N.Y. [with list of literature cited; by
Donald F. Flora and others]. Sept. 1969. cover title, i+153 p.+ [3] leaves,
il. S5 p. of pl. and maps, 4° [Prepared in cooperation with Cornell Uni-
versity Agricultural Experiment Station. One map is colored.] * Paper,
\$5.50. ● Item 102 (Rev. 1957)
L.C. card 70-603913 A 57.38: Sch 6
- 16439 — Vernon County, Wis. [with list of literature cited; by Robert W.
Slota]. Oct. 1969. cover title, i+82 p.+ [4] leaves, il. 146 p. of pl. and maps,
4° [Prepared in cooperation with University of Wisconsin, Wisconsin
Geological and Natural History Survey, Soil Survey Division, and Wis-
consin Agricultural Experiment Station. One map is colored.] * Paper,
\$7.75. ● Item 102 (Rev. 1957)
L.C. card 74-604047 A 57.38: V 59
- 16440 Soil survey interpretations for woodlands in southern Coastal Plain and
Blackbelt areas of Arkansas, Louisiana, Oklahoma, and Texas with av-
erage rainfall of 25 to 30 inches during frost-free period. Progress re-
port, W-2, July 1968. Fort Worth, Tex., 1968. [1]+8+10+4 p. il. 4° ‡
A 57.58: 2

SPORT FISHERIES AND WILDLIFE BUREAU, Interior Dept. Washington, DC 20240

- 16441 Accident control report, 1968. [Mar. 1969.] cover title, 46 p. il. oblong 8°
([Office of Safety.]) [Text on p. 2-4 of cover.] ‡ I 49.73: 968
Circular.
- 16442 111. Duck stamp data, information for stamp collectors and conservationists. Re-
vised 1969. [1969.] [2]+48 p. il. * Paper, 30c. ● Item 609 I 49.4: 111/5

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

●Official Use. Not Available

[Refuge leaflets.] †

I 49.44; (nos.)

- 16443 26. Desert National Wildlife Range. [June 1969.] 4 p. il. 4°
- 16444 51. Santa Ana National Wildlife Refuge. June 1969. 4 p. il. 4°
- 16445 60. Back Bay National Wildlife Refuge. [May 1969.] 5 p. il. narrow 8°
- 16446 68. Klamath Basin National Wildlife Refuges. [June 1969.] 4 p. il. 4°
- 16447 124. Birds of Santa Ana National Wildlife Refuge. May 1969. 4 p. il. 4°
- 16448 139. Birds of Bear River Migratory Bird Refuge. [Jan. 1969.] 6 p. il. narrow 12°
- 16449 163. Birds of Deer Flat National Wildlife Refuge. [Apr. 1969.] 6 p. narrow 16°
- 16450 328. Mammals of Des Laes National Wildlife Refuge. June 1969. 4 p. il.
- 16451 508. Hawaiian Islands National Wildlife Refuge. [May 1969.] [12] p. il. narrow 8°
- 16452 511. De Soto National Wildlife Refuge. Iowa, Nebraska. [Apr. 1969.] 1 p. il. large 4°, folded into narrow 8° with map on verso
- 16453 556. Seedskaadee National Wildlife Refuge. [Mar. 1969.] [8] p. il. narrow 8°
- 16454 557. William L. Finley National Wildlife Refuge. Oreg. [Mar. 1969.] [8] p. il. narrow 8°
- 16455 559. Stillwater Wildlife Management Area. [Apr. 1969.] 6 p. il. 4°

Resource publication.

- 16456 78. Lightweight backpack high-voltage electrofishing unit [with list of references]; by P. Phillip Sharpe and Walter T. Burkhard. May 1969. ii+8 p. il. 4° * Paper, 25c. ● Item 613-B I 49.66; 78

Special scientific report: Wildlife (series). ● Item 614-C

I 49.15/3; (nos.)

- 16457 124. Breeding bird survey, 1967 and 1968 [with list of references]; by Chandler S. Robbins and Willet T. Van Velzen. Apr. 1969. iv+107 p. il. 4° * Paper, \$1.00.
- 16458 127. Metabolism of pesticides [with bibliographies]; by Calvin M. Menzie. July 1969. 487 p. 4° ‡

STATE DEPARTMENT

Washington, DC 20520

Background notes. ([Office of Media Services, Bureau of Public Affairs.] [Issued with perforations.] * Paper, \$3.50 per yr., \$3.00 additional for foreign mailing; single copies, each 10c. ● Item 862-B

- 16459 Angola [with reading list]. [Revised July 1969.] [1969.] 6 p. il. 4° ([Publication 7962]) S 1.123: An 4/969
L.C. card 66-61561
- 16460 Fiji Islands [with reading list]. Aug. 1969. 4 p. il. 4° ([Publication 8486.1]) S 1.123: F 47
L.C. card 65-60213
- 16461 Republic of Niger [with reading list]. [Revised Aug. 1969.] Aug. 1969. 4 p. il. 4° ([Publication 8293.]) S 1.123: N 56/969
L.C. card 66-61561

- 16462 Centrex telephone directory, Department of State, Agency for International Development, Arms Control and Disarmament Agency. July 1969. cover title, x+150+[8] p. il. 4° [Text on p. 2-4 of cover.] * Paper, \$1.75. S 1.21: 969-2

East Asian and Pacific series. ● Item 870

S 1.38; (nos.)

- 16463 155. Viet-Nam information series: no. 1, Basic data on South Vietnam. Revised Aug. 1969. [1969.] 4 p. il. 4° ([Publication 8195]; Office of Media Services, Bureau of Public Affairs.) [Issued with perforations.] * Paper, 10c. L.C. card 68-60068
- 16464 182. U.S. role in Pacific community, address by Secretary of State William P. Rogers. [Sept. 1969.] [1]+9 p. 12° ([Publication 8489]; Office of Media Services, Bureau of Public Affairs.) [Text of address before National Press Club, Canberra, Australia, Aug. 8, 1969.] * Paper, 25c. L.C. card 76-604042
- 16465 Foreign aid and U.S. national interests, [by Elliot L. Richardson, Under Secretary of State]. [1969.] [2]+8+[1] p. il. 4° ([Publication 8485; Office of Media Services, Bureau of Public Affairs.]) [Text on statement before House Committee on Foreign Affairs, June 9, 1969. Reprinted from Department of State bulletin, June 30, 1969.] * Paper, 15c. L.C. card 79-604059 S 1.3/a: F 761/3
- 16466 Foreign relations of United States, 1946: v. 6, Eastern Europe, Soviet Union. 1969. ix+923 p. ([Publication 8470; Historical Office, Bureau of Public Affairs.]) [Also issued as H. doc. 481, pt. 6, 80th Cong., 1st sess.] * Cloth, \$5.50. ● Item 872 S 1.1: 946/v.6

ΦFor Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

General foreign policy series. ● Item 875

S 1.71:(nos.)

- 16467 195. How foreign policy is made, [Revised Sept. 1969.] [1969.] [2]+28+[2] p. il. 4° ([Publication 7707; Bureau of Public Affairs, Office of Media Services.]) * Paper, 50c.
L.C. card 79-603918
- 16468 237. Toward an open world [address by] Richard Nixon, before 24th session of U.N. General Assembly at United Nations, New York. [Sept. 18, 1969.] [Oct. 1969.] [2]+14 p. 4° * Paper, 20c.
L.C. card 78-603907
- 16469 238. Aims and strategy of U.S. foreign policy, [address by] Elliot L. Richardson, Under Secretary of State, Department of State. [Oct. 1969.] [2]+10 p. ([Publication 8496; Office of Media Services, Bureau of Public Affairs.]) [Text of address before American Political Science Association, New York, N.Y., Sept. 5, 1969.] * Paper, 15c.
L.C. card 71-604065

International organization and conference series. ● Item 882-B

S 1.70:(nos.)

- 16470 87. Issues in United States foreign policy: no. 2, NATO and defense of Europe. [Sept. 1969.] cover title, 32 p. il. 4° ([Publication 8476; Office of Media Services, Bureau of Public Affairs.]) [Errata, 1 p. oblong 48°, issued also.] * Paper, 60c.
- 16471 89. Discussion guide Issues: no. 2, NATO and defense of Europe. [Sept. 1969.] [7] p. il. 4° ([Publication 8487; Office of Media Services, Bureau of Public Affairs.]) * Paper, 10c.

Treaties and other international acts series. * Paper, \$15.00 a yr. (approximately 150 issues), \$7.00 additional for foreign mailing; single copies vary in price. (Issues of \$1.00 or more are not furnished as part of the subscription.) ● Item 899

S 9.10:(nos.)

- 16472 6728. Telecommunication, facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement between United States and Australia extending agreement of Jan. 13, 1969, effected by exchange of notes dated Canberra July 10, 1969; [entered into force July 10, 1969]. [1969.] [2]+3 p. * Paper, 10c.
L.C. card 74-603634
- 16473 6731. Agricultural commodities, agreement between United States and Indonesia signed Djakarta Apr. 23, 1969; [entered into force Apr. 23, 1969]. [1969.] [2]+4 p. * Paper, 10c.
L.C. card 71-603636
- 16474 6732. Boundary waters, pilotage services on Great Lakes and St. Lawrence Seaway, agreement between United States and Canada, effected by exchange of notes signed Washington July 31, 1969; [entered into force July 31, 1969.] [1969.] [2]+10 p. [English and French.] * Paper, 10c.
L.C. card 78-603635
- 16475 6734. Agricultural commodities, agreement between United States and Viet-Nam signed Saigon July 28, 1969; [entered into force July 28, 1969]. [1969.] [2]+3 p. * Paper, 10c.
L.C. card 72-603639
- 16476 6735. Space cooperation, agreement between United States and Japan, effected by exchange of notes signed Tokyo July 31, 1969; [entered into force July 31, 1969]. [1969.] [2]+9 p. [Japanese and English.] * Paper, 10c.
L.C. card 78-603781
- 16477 6736. Peace Corps, agreement between United States and Trinidad and Tobago, effected by exchange of notes signed Port of Spain July 11 and 21, 1969; [entered into force July 21, 1969]. [1969.] [2]+5 p. * Paper, 10c.
L.C. card 79-603638
- 16478 6737. Agricultural commodities, agreement between United States and Viet-Nam, modifying agreement of June 27, 1969, effected by exchange of notes signed Saigon Aug. 8, 1969; [entered into force Aug. 8, 1969]. [1969.] [2]+2 p. * Paper, 10c.
L.C. card 70-603633
- 16479 6738. Mutual defense assistance, agreement between United States and Luxembourg, amending Annex B to agreement of Jan. 27, 1950, effected by exchange of notes signed Luxembourg July 11 and 24, 1969; [entered into force July 24, 1969]. [1969.] [2]+3 p. [English and French.] * Paper, 10c.
L.C. card 75-603637
- 16480 6739. Agricultural commodities, agreement between United States and Dominican Republic, signed Santo Domingo May 10, 1968; [entered into force May 10, 1968]. [1969.] [2]+4 p. [English and Spanish.] * Paper, 10c.
L.C. card 70-603842
- 16481 6741. Atomic energy, application of safeguards by IAEA to United States-Iran cooperation agreement, agreement between United States, Iran, and International Atomic Energy Agency signed Vienna Mar. 4, 1969; [entered into force Aug. 20, 1969]. [1969.] [2]+9 p. * Paper, 10c.
L.C. card 71-603940
- 16482 6743. Extension of loan of vessels U.S.S. Converse and U.S.S. Kraken, agreement between United States and Spain, effected by exchange of notes signed Washington and Madrid July 14 and Aug. 4, 1969; [entered into force Aug. 4, 1969]. [1969.] [2]+4 p. [English and Spanish.] * Paper, 10c.
L.C. card 70-603945

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16483 U.S. National Commission for UNESCO, memo, special issue, in a quiet country-side a disquieting subject [American mood in foreign affairs; by Martin Mayer]. [1969.] cover title, [24] p. il. 4° [Report on meeting of Consultation on American mood in foreign affairs, Arlie House, Warrenton, Va., May 18-20, 1969.] † S 5.48/14: Am 3
- 16484 United States treaties and other international agreements: v. 19, pt. 2, 1968. [1969.] v+1227-2619 p. large 8° [Includes treaties and other international acts series 6425. Text in English and French.] * Cloth, \$12.75. ● Item 899-A
L.C. card 53-60242 S 9.12: 19/pt.2
- 16485 — v. 19, pt. 3, 1968. [1969.] v+2620-4087 p. large 8° [Includes treaties and other international act series 6425. Text in English and French.] * Cloth, \$13.25. ● Item 899-A
L.C. card 53-60242 S 9.12: 19/pt.3

STATISTICAL REPORTING SERVICE, Agriculture Dept.

Washington, DC 20250

- 16486 Stocks of hops, Sept. 1, 1969. Sept. 19, 1969. 1 p. 4° (SpCr 2 (9-69): Crop Reporting Board.) † A 92.30: 969-2

SYSTEMS RESEARCH AND DEVELOPMENT SERVICE, Transportation Dept., Washington, DC 20553

- 16487 All weather landing development tests; by James R. Nelson, June 17, 1969. [1]+3 p. 9 pl. 4° [Presented by 3d R&D Report to Industry.] ‡ TD 4.502: L 23
Report RD-(series). ‡ TD 4.509: 69-22/v. (nos.)
- 16488 69-22. Climatological summaries, visibilities below ½ mile and ceilings below 200 feet. (Prepared by Department of Commerce, Environmental Science Services Administration, Environmental Data Service, National Weather Records Center, Asheville, N.C.; final report, contract FA-67-WAI-129, project 197-641-OIR.)
- 16489 v. 1. Anchorage, Alaska, International Airport. June 1969. cover title, [3] leaves+29 p. 4°
- 16490 v. 2. Atlanta Airport, Atlanta, Ga. June 1969. cover title, [3] leaves+29 p. 4°
- 16491 v. 3. Friendship International Airport, Baltimore, Md. June 1969. cover title, [3]+29 p. 4°
- 16492 v. 4. International Airport, Birmingham, Ala. June 1969. cover title, [3] leaves+29 p. 4°
- 16492 v. 5. Boston, Mass., General E. L. Logan International Airport. June 1969. cover title, [3] leaves+29 p. 4°

TARIFF COMMISSION

Washington, DC 20436

- 16493 Plastic mattress handles from Canada; determination of no injury or likelihood thereof in investigation no. AA1921-57 under Anti-dumping act, 1921, as amended. Oct. 1969. cover title, [1]+15 leaves 4° (TC publication 296.) † TC 1.31: P 69/3
- 16494 Supplement 3 to Tariff schedules of United States annotated (1969): [Oct. 1, 1969]. 1969. [35] p. 4° (TC publication 272.) [Issued in loose-leaf form.] * Paper, \$8.00 (including supplementary service for an indefinite period); \$2.00 additional for foreign mailing. ● Item 982-B
L.C. card 68-60216 TC 1.35/2: 969/supp.3
- 16495 Synthetic organic chemicals, United States production and sales of rubber-processing chemicals, 1968, preliminary. Oct. 1969. cover title, [1]+9 p. 4° † TC 1.33/2: R 82/968

TAX COURT

Washington, DC 20224

- 16496 Reports of Tax Court: v. 51, Oct. 1, 1968-Mar. 31, 1969; Ella C. Thomas, reporter. 1969. vii+1092 p. * Cloth, \$6.00. ● Item 742
L.C. card 44-6276 JU 11.7: 51

‡For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 97

GOVERNMENT PUBLICATIONS

TENNESSEE VALLEY AUTHORITY Washington, DC 20444

- 16497 Flood damage prevention, indexed bibliography. 6th edition. Knoxville, Tenn., July 1969. [2]+43 p. (Technical Library.) [Illustration on p. 2 of cover.] †
L.C. card 79-604276 Y 3.T 25: 31 F 65/969
- Forestry bulletin.
- 16498 144. Forest inventory statistics, Jackson County unit, western North Carolina. [Sept. 1969.] cover title, [1]+18 p. il. map. 4° [Text and another map on p. 2 of cover.] †
Y 3.T 25: 18/144
- 16499 Power annual report [fiscal year] 1969. [1969.] cover title, 41 p. il. 4° [Page 41 printed on inside of back cover. Text on p. 2 of cover. Illustrations are colored.] † Director of Information, Tennessee Valley Authority, Knoxville, TN 37902.
L.C. card 60-62377 Y 3.T 25: 1-7/969
- 16500 Publications available for general distribution. Aug. 1969. 10 p. 4° (Division of Forestry Development.) †
Y 3.T 25: 27 P 96/4/969-2
- 16501 Quality environment in Tennessee Valley. [May 1969.] [2]+30 p. il. oblong 8° †
L.C. card 77-602111 Y 3.T 25: 2 En 8
- 16502 TVA fertilizer science for the Nation. [1969.] [8] p. il. (National Fertilizer Development Center, Muscle Shoals, Ala.) †
Y 3.T 25: 2 F 41/9
- Water Control Planning Division: Report.
- 16503 0-6734. Floods on Cheoah River and tributary creeks in vicinity of Robbinsville, N.C. Apr. 1969. [7]+60 p. il. 10 pl. 4° †
Y 3.T 25: 38/0-6734

TRAINING AND EMPLOYMENT SERVICE, Labor Dept. Washington, DC 20210

NOTE.—The Training and Employment Service was established within the Labor Department's Manpower Administration.

- 16504 Handbook for job restructuring [with bibliography]. Oct. 1969. vii+150 p. il. 4° [Advance copy.] † ● Item 756-B
L 34.8: J 57/2

TRANSPORTATION DEPARTMENT Washington, DC 20590

- 16505 National Defense Executive Reserve seminar conference, National Headquarters element, proceedings, June 4-5, 1969, Washington, D.C. cover title, [1]+iv+38+11 p. 4° (Office of Emergency Transportation.) †
TD 1.2: N 21/969
- 16506 Regulations of Office of the Secretary, [revised pages]. [1969.] [34] p. 4° [Includes transmittal 2. Issued in looseleaf form.] * Paper, \$2.00 (including basic manual and supplementary material for an indefinite period); 50c additional for foreign mailing. ● Item 982-C-3
TD 1.6/2: 967/trans.2
- 16507 Regulations of Office of Secretary, [revised pages]. [1969.] [33] p. 4° [Includes transmittal 3. Issued in looseleaf form. Price incorrectly given in publication as 35c.] * Paper, \$2.00 (including basic manual and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 982-C-3
TD 1.6/2: 967/trans.3
- 16508 2d annual report, fiscal year 1968. [1969.] x+179 p. il. * Paper, 75c. ● Item 982-C
L.C. card 72-600917 TD 1.1: 968
- 16509 Transportation forecast: time series regression analysis of freight and passenger transport demand to 1980. Aug. 1969. ii+16 leaves il. 4° † [Prepared in Office of Systems Requirements, Plans and Information, Assistant Secretary for Policy and International Affairs.] †
TD 1.14: F 88/980

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16510 United States Department of Transportation, what it buys, where it buys, how it buys. Sept. 1969. [11+26+12] p. il. 4° ‡ TD 1.2: T 68/5/969

TREASURY DEPARTMENT

Washington, DC 20220

- 16511 Economies of the tax bill, remarks by Murray L. Weidenbaum, Assistant Secretary of Treasury for Economic Policy, before Mortgage Bankers Association, Washington, D.C., Sept. 10, 1969. 1969. 12 p. 4° ‡
T 1.31: W 42/2
- 16512 Foreign credits by United States Government, status of active foreign credits of United States Government and of international organizations, as of Dec. 31, 1968. [1969.] cover title, v+173 p. oblong 12° * Paper. \$1.50. ● Item 925-C T 1.45: 96/2
- 16513 Historical highlights of Treasury Building, Washington, D.C. [1969.] 11 p. il. ‡ ● Item 925 T 1.2: B 86/2/969
- 16514 Remarks of Charles E. Walker, Under Secretary of Treasury before American Bankers Association, 95th annual convention, Honolulu, Hawaii, Sept. 30, 1969. [1969.] 12 p. 4° (K-214.) ‡ T 1.31: W 151/2
- 16515 Remarks of Edwin S. Cohen, Assistant Secretary of Treasury for Tax Policy before 62d annual conference on taxation, National Tax Association, Boston, Mass., Sept. 30, 1969. [1969.] 13 p. 4° (K-216.) ‡
T 1.31: C 66/2
- 16516 Statement by Murray L. Weidenbaum, Assistant Secretary of Treasury for Economic Policy before House Ways and Means Committee on H.R. 12625, Employment security amendments of 1969, Oct. 1, 1969. [1969.] 10 p. 4° (K-220.) ‡ T 1.31: W 42/3
- 16517 Statement by Paul W. Eggers, General Counsel of Treasury before House Banking and Currency Committee on H.R. 13252, Oct. 1, 1969. [1969.] [10] p. 4° (K-221.) ‡ T 1.31: Eg 3
- 16518 Summary of remarks by Paul A. Volcker, Under Secretary of Treasury for Monetary Affairs, before National Export Expansion Council of Department of Commerce, Washington, D.C., Sept. 12, 1969. 1969. 4 p. 4° (K-196.) ‡ T 1.31: V 88/4

UNITED STATES TRAVEL SERVICE, Commerce Dept.

Washington, DC 20230

- 16519 Pleasure and business visitors to U.S. by port of entry and mode of travel, calendar year 1968. [1969.] [8] p. oblong large 8°, folded into 4° size. (Office of Research and Analysis.) ‡
L.C. card 73-601629 C 47.15/2: 968-2
- 16520 Remarks of C. Langhorne Washburn, Director, United States Travel Service, before 39th ASTA World Congress, Tokyo, Japan, Sept. 18, 1969. [1969.] 5 p. 4° ‡ C 47.9: W 27

VETERANS ADMINISTRATION

Washington, DC 20420

Handbook H (series).

- 16521 232-68-1. [Handbook for Veterans Administration contact representatives]. Change 2. Aug. 25, 1969. [308] p. 4° (Department of Veterans Benefits.) [Issued with perforations.] * Paper, \$2.50. ● Item 987
VA 1.10/5: 232-68-1/ch.2
- 16522 How to respect and display our flag. [1969.] [4] p. il. ‡ ● Item 985
VA 1.2: F 59/2

Manual M (series).

- 16523 27-1. Office of Chief Attorney, operating procedures. Oct. 1, 1969. [128] p. 4° (Department of Veterans benefits manual.) [Issued in looseleaf form.] ‡ ● Item 987
VA 1.18: 27-1

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

VA pamphlet.

- 16524 29-22. Modified life plan of insurance, information about conversion and premium rates for present holders national service life insurance in V. RS, W, H, and RH programs. Revised July 1969. [1969.] 15 p. narrow 16° † VA 1.19:29-22/2

VETERANS REEMPLOYMENT RIGHTS OFFICE, Labor Dept.
Washington, DC 20210

- 16525 Now, about that job, A B C's for veterans. [1969.] [6] p. narrow 8° †
● Item 773 I. 25.2: J 57/2/969

WEATHER BUREAU, Commerce Dept.
Washington, DC 20235

- 16526 Daily river stages, v. 62. 1966 [with list of reference notes]; compiled by Office of Hydrology. 1969. iii+158 p. 4° [Prior to 1949 issue, publication was entitled Daily river stages at river gage stations on principal rivers of United States. Includes list of corrigenda.] * Paper, \$1.25.
● Item 274
L.C. card 65-9158 C 30.24:62
- 16527 Observers quarterly, spring 1969. [1969.] cover title, 16 p. il. 4° [Text on p. 2-3 of cover.] ‡ C 30.86:969/1

Index

MONTHLY CATALOG NOVEMBER 1969

NOTE.—Entries appear in this Index under subjects or titles. Bulletins, circulars, etc., having no specific subjects are entered under the issuing office only. Index citations are to entry numbers in the catalog.

A

A.E.C., *see* Atomic Energy Commission.
 Abbreviations, contractions used by FAA air control, etc., handbook, change, 15025
 Ability:
 developing human resources, AEC contractors' affirmative action programs, 15079
 potential mechanization in the-cured tobacco industry with emphasis on human resource adjustment, 15618
 Abingdon, Va., railroad accident, report, 15725
 Ablating materials, pyrolysis-gas flow through char layer during ablation simulation, 16197
 Ablation, pyrolysis-gas flow through char layer during ablation simulation, 16197
 Abrasives, Federal item identification guide, 15496
 Absorption:
 acoustical absorption properties of wood-base panel materials, 15761
 plasma absorption of high-frequency energy near lower hybrid frequency, 15068
 Abstracts, *see* subjects.
 Academy of Agricultural Sciences, USSR, proceedings, 15942
 Academy of Medical Sciences, USSR, roster of nominees for membership, 15903
 Academy of Sciences, Belorussian SSR, history and activities, outline, 15981
 Academy of Sciences, Ukrainian SSR, newspaper articles, 15969
 Academy of Sciences, USSR:
 experiments with electronic techniques, 15971
 report on Siberian Division, 15965
 Acceleration, solid propellants under acceleration, experimental investigation of effect of aluminum size and loading on burning rate, 16163
 Accelerators, problem of current limits in accelerators and stability of nonuniform electron beams, 15067
 Access openings, *see* Closures.
 Accident insurance, consumer credit insurance transactions, protect from abuses relative to excessive charges, hearings, 15418
 Accidents:
 annual control report, Sport Fisheries and Wildlife Bureau, 16141
 prevention, Health, Education, and Welfare Department program (remarks), 16335
 see also Aircraft accidents—Injuries—Marine accidents—Motor vehicle accidents—Railroad accidents—Safety of life.
 Acclimatization, body armor in hot humid environment, studies in heat acclimatized men, 16057
 Accounting, *see* Accounts and accounting.

Accounts and accounting:
 Federal agency accounting systems as of Dec. 31, 1968, progress and problems relating to improvement, GAO report, 15786
 motor carriers of property, uniform system, 15896
 professional challenge and growth for accounting majors, Federal Highway Administration, 15703
 ACDA, *see* Arms Control and Disarmament Agency.
 Acoustic waves, *see* Waves.
 Acoustics, *see* Sound.
 Acreage allotments, *see* names of products.
 Acts of Congress, *see* Law.
 Actuarial notes, 16409-410
 Actuarial study series, 16411
 Acuity:
 duction, relation to dynamic stereoacuity, 16066
 visual acuity under water without face mask, 16069
 Ad Hoc Group on Population Research, report, Federal program in population research, 16396
 Addresses, lectures, etc.:
 by—
 Allen, James E., Jr., 15630, 15635, 15641
 Bentley, Helen D., 15715-716
 Blackwell, Robert J., 16050
 Blount, Winton M., 16331
 Blum, Jerome B., 15713
 Bowman, Roy G., 16048
 Brimmer, Andrew F., 15734
 Browne, Secor D., 15125-127
 Bruce, Louis R., 15847
 Campbell, J. Phil., 14983
 Cohen, Edwin S., 16515
 Condon, Lester P., 15825
 Cox, Lawrence M., 15824, 15841-842
 Daane, J. Dewey, 15727
 Davis, Kenneth N., Jr., 15165
 Eggers, Paul W., 16517
 Fanseen, James F., 15712
 Fletcher, Arthur A., 15996
 Gibson, Andrew E., 16049
 Gilliland, Whitney, 15129
 Henderson, John B., 15178
 Hickel, Walter J., 15852
 Hoover, I. H., 15680
 Hyde, Floyd H., 15823
 Jacklin, H. M., Jr., 16241
 Johnson, Charles C., Jr., 16337, 16348, 16364, 16368
 Larson, Clarence E., 15084
 McGuire, Marie C., 15826
 McLellan, Robert, 15177
 Martin, Preston, 15704
 Mitchell, George W., 15726
 Murphy, Robert T., 15128, 15130
 Mutter, H. B., 15714
 Nehmer, Stanley, 15166
 Palmbly, Clarence D., 14982
 President Nixon, 16468

INDEX

Addresses, lectures—Continued by—continued

Rice, Dorothy P., 16412
 Richardson, Elliot L., 16465, 16469
 Rogers, William P., 16464
 Schnellbacher, E. E., 15888, 15891
 Seaborg, Glenn T., 15078, 15082-83
 Shultz, George P., 15998, 16003
 Steilano, Rocco C., 15162-163, 15175
 Simmons, Samuel J., 15822, 15843
 Stans, Maurice H., 15159-161, 15173-174
 Thompson, Theos J., 15080-81
 Train, Russell E., 15851
 Tribus, Myron, 15176
 Van Dusen, Richard C., 15839-840
 Voleker, Paul A., 16518
 Walker, Charles E., 16514
 Walrath, Laurence K., 15894
 Washburn, C. Langhorne, 16520
 Weidenbaum, Murray L., 16511, 16516
 Williams, David L., Jr., 15632
 Williams, Thomas F., 16335
 Yaffe, Charles D., 16367
 FMC SP series, 15712-716
 MA SP series, 16048-50
 Administration, *see* Administrative management.
 Administrative Conference of United States: appropriations, 1970, report, 15281
 appropriations, raise ceiling, amend U.S. Code, hearings, 15464
 Administrative management: contractor data and reports, 15014
 forms management, records management handbook, 16222
 Government owned and leased real property overseas, improvements needed in management by State Dept., GAO report, 15782
 management career opportunities for administration majors, Federal Highway administration, 15702
 management systems, regulations and control, USSR study, 15898
 omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
 small business management series, 16402
 sugar marketing quotas established by Sugar act of 1948, as amended, administration by Agricultural Stabilization and Conservation Service, GAO report, 15777
 supervising the hard core, management guidelines, 16004
 ADP, *see* Electronic data processing systems.
 Adult-Youth Communications Week, *see* National Adult-Youth Communications Week.
 Advanced Research Projects Agency, ARPA-NBS program of research on high temperature materials, 16228
 Advertising, pandering advertisements, how you can curb, 16328
 Advisory Commission on Intergovernmental Relations, appropriations, 1970, report, 15281
 AEC, *see* Atomic Energy Commission.
 Aerial mapping, aerial methods of studying and mapping sands, USSR study, 15915
 Aerodynamics, and flight dynamics of turbo-jet aircraft, 16209
see also Stability of aircraft.
 Aeronautics:
 AIP, aeronautical information publication, handbook, 15027
 Air traffic patterns for IFR and VFR aviation, 15679
 Airport/airways legislation, 15681
 aviation facilities expansion act of 1969, hearings, 15337
 Federal aviation act of 1958, amend—law, 15210
 report, 15241

Aeronautics—Continued

Federal aviation regulations, 15684-687
 Marine Corps' concept of close air support, annotated bibliography, change sheets, 16044
 Aerosols, containers, methods of analyzing organophosphorus insecticides, trichloro-metaphos and carbophos, USSR study, 15954
 Aerospace, *see* Outer space.
 Aerospace medicine, *see* Medicine.
 Aerospace nurse date book, 15008
 Aerospace Research Office:
 Air Force research objectives, 1969, physical sciences, engineering sciences, environmental sciences, life sciences, 15016
 OAR series, 15016
 AFL-CIO, *see* American Federal of Labor and Congress of Industrial Organizations
 Africa, west coast, lights and fog signals, list, change, 16303
 AFSC, *see* Air Force Systems Command.
 Age, limits, in appointments to U.S. Park Police, report, 15262
 Aged:
 519 East Main Street, tribute to partnership and involvement (address), 15826
 older Americans act of 1965—amendments of 1969, report, 15360
 strengthen and improve, report, 15360
see also Aging—Old-age, survivors, and disability insurance.
 Ageton, Robert W., systems approach to recovering gold resources in Jefferson County, Mont., 16104
 Aging:
 economics of aging, toward a full share in abundance, survey, hearings, 15414
 print additional copies, report, 15389
 projects, Federal financial assistance, 14971-973
see also Aged.
 Aging, Special Committee on, Senate, hearings, 15414
 Agricultural adjustment act, *see* Agriculture.
 Agricultural commodities, *see* Agricultural products.
 Agricultural products:
 agricultural commodities agreement with—
 Dominican Republic, 16480
 Indonesia, 16473
 Vietnam, 16475, 16478
 Agricultural marketing agreement act of 1937, amend, report, 15396
 farm marketing quota review committee, appoint members from any county in state, permit court review of determinations, 15399
 foreign agricultural trade by commodities, 15626
 marketing research reports, 14997
 production research reports, 15005-6
 Agricultural Research Service, ARS series, 14974-975
 Agricultural research technicians, examination announcement, 15143
 Agricultural Stabilization and Conservation Service, administration of sugar marketing quotas established by Sugar act of 1948, as amended, GAO report, 15777
 Agriculture:
 Academy of Agricultural Sciences, USSR, proceedings, 15942
 Agricultural adjustment act, amend, reports, 15395-396, 15399
 agricultural economic reports, 15617-618
 agricultural handbooks, 14984-987
 agricultural information bulletins, 14988-989
 census, 1964—
 evaluation surveys, coverage check, 15121
 final reports, 15121

- Agriculture—Continued
cooperative State-Federal research, 14989
evaluation surveys, 1961 census of agriculture, coverage check, 15121
Far East and Oceania, 1969 agricultural data book, 15623
foreign agricultural economic reports, 15624
Foreign Agricultural Service, miscellaneous FAS-M series, 15746-748
U.S. agriculture in changing world (address), 14982
Agriculture and Forestry Committee, Senate, reports, 15361-362, 15394-396, 15399
Agriculture Department:
employee handbook, 14984
institutional meat purchase specifications, cured, dried, and smoked beef products, 15480
land conveyance to Board of Education of Lee County, S.C., report, 15361
leaflets, 14994-996
marketing research reports, 14997
miscellaneous publications, 14998
PA [program aid] series, 1499-15003
plants under continuous inspection, processed fruit and vegetables, etc., list, 15481
production research reports, 15005-6
registered agricultural pesticide chemicals, insecticides, repellants, acaricides, summary of uses, 14981
statistical series, how constructed and used, 14987
technical bulletins, 15007
what it can do when natural disaster strikes, 14999
AIB series, 14988-989
Aims and strategy of U.S. foreign policy (address), 16469
Air:
measuring electrical conductivity of air in free atmosphere from aircraft, USSR study, 15975
methods of analyzing organophosphorus insecticides, trichlorometaphos and carbophos, USSR study, 15954
radiant energy transfer measurements, 16124
see also Air pollution.
Air almanacs, *see* Almanacs.
Air carriers
acquisition of control, unlawful without approval of CAB, amend act—
law, 15210
report, 15241
certification and operations, Federal aviation regulations, 15685
emerging patterns in regulations of local air carriers (remarks), 15129
local service, fares, routes (address), 15128
operations inspector's handbook, 15690
Air flow, *see* Flow.
Air Force:
aerospace nurse date book, 15008
airfield lighting, evaluation of United States portable system, 15694
airmen, occupational handbook, manual for guidance counselors, 15023
Assistant Secretary, installations and logistics, nomination of Philip N. Whitaker, hearing, 15417
Chief of Staff, nomination of John D. Ryan, hearing, 15416
Air Force Department:
Air Force manuals, 15009-11
Air Force pamphlets, 15012
appropriations, 1970, military construction, hearings, 15301
OAR series, 15016
real property conveyance to Okaloosa County Board of Public Information, hearings, 15303
Air Force Medical Service, annual report, 15024
Air Force Systems Command:
general information, 15013
manuals, 15014
Air pollution:
air quality act, cost of clean air, report, 15819
air quality criteria for—
particulate matter, 16356
sulfur oxides, 16357
aspects, odors, visibility, and art, 16371
Clean air act, amend, report, 15254
control and research activities, cost of clean air, report, 15819
Dayton intrastate air quality control region, report for consultation, 16369
gas chromatography used to study, 15920
hygienic significance of metaphos as atmospheric pollutant, USSR study, 15904
planning grants, guidelines, 16345
progress in State and local control under Clean air act, 16367
research, radiotracer procedures for mechanistic studies, 16103
Air Pollution Technical Information Center, bulletin, 16336
Air quality act, *see* Air pollution.
Air traffic:
airport and airways congestion problems (address), 15125
control—
contractions used by FAA, etc., handbook, change, 15025
en route, change, 15026
system shakedown tests (C20N) NAS en route stage A model 1, functional package A, flight data processing, 15693
patterns for IFR and VFR aviation, 15679
Air transportation, *see* Air carriers.
Air University Library, special bibliography series, 15022
Airborne operations, ESSA Research Flight Facility, facilities for airborne atmospheric research, 15676
Aircraft:
Coast Guard, authorization for procurement, law, 15197
inspection and repair, acceptable methods, techniques and practices, 15678
large—
airworthiness directives, summaries, supplement, 15695
commercial operators, certification and operation, Federal aviation regulations, 15685
measuring electrical conductivity of air in free atmosphere from aircraft, USSR study, 15975
military procurement appropriations, 1970—
hearings, 15302
report, 15295
noise and sonic boom research and development (paper), 15680
small, airworthiness directives, summary, revised pages, 15696
system shakedown tests (C20N) NAS en route stage A model 1, functional package A, flight data processing, 15693
see also Aircraft accidents—Airplanes.
Aircraft accidents:
briefs, accidents involving—
aerial applications operations, 16286
rotorcraft aircraft, 16267
crash survival design guide, 15058
investigation reports, 16282-285
Airfields, *see* Airports.
Airmen, occupational handbook, manual for guidance counselors, 15023
Airplanes:
airtravel clubs using large airplanes, certification and operations, Federal aviation regulations, 15686

INDEX

- Airplanes - Continued
 turbojet, aerodynamics and flight dynamics, 16209
 twin-jet—
 afterbody model, effect of jet velocity and axial location of nozzle exit on performance, 16161
 swept-wing fighter, analysis of flat-spin characteristics, 16166
 X-15 horizontal stabilizer, evaluation of infrared heating simulation of Mach 4.63 flight, 16165
 XB-70, cockpit environmental data, summary, 16189
see also Aircraft.
- Airports:
 airport and airways congestion problems (remarks), 15126
 Airport and airways development act of 1969, hearings, 15323-324
 Airport development act of 1969, hearings, 15323-324
 aviation facilities maintenance and development, hearings, 15323-324
 climatological summaries—
 Atlanta Airport, Atlanta, Ga., 16489
 Friendship International Airport, Baltimore, Md., 16490
 General E. L. Logan International Airport, Boston, Mass., 16492
 International Airport, Anchorage, Alaska, 16188
 International Airport, Birmingham, Ala., 16491
 design and cities considerations (remarks), 15127
 Federal act, extend, hearings, 15323-324
 Federal-aid program, labor requirements in contracts, 15691
 Federal Airport act, repeal, hearings, 15337
 international, 3-track runway and taxiway profiles measured, 16187
 jet airport problems at Everglades National Park, hearings, 15461
 legislation for improvements, etc., 15681
 lighting, evaluation of Air Force portable system, 15694
 user charges, imposition of tax, hearings, 15337
see also Air traffic.
- Airways:
 legislation for improvements, etc., 15681
 user charges, imposition of tax, hearings, 15337
- Airworthiness, *see* Aircraft.
- Alaska:
 census of business, 1967, wholesale trade, area statistics, 15099
 grant certain lands to natives, hearings, 15321
 interior, regeneration of white spruce, literature review, 15775
 native land claims, settle, hearings, 15321
 natives, dental services, annual report, 16339
 north slope, oil lease sale (remarks), 15851
 trans-Alaska pipeline, construction plans, status, etc., 15463
 Alaska Native Commission, establish, hearings, 15321
 Alaska Native Development Corporation, establish, hearings, 15321
 Alaska Power Administration, appropriations, 1970, report, 15298
- Alcohol:
 and highway safety counter-measures, 16242
 miscellaneous alcohols and amines, technical grade, military standard, 15528
- Aliens, in-migration into United States in professional and related occupations, annual indicator, 15845
- All Union:
 NOTE. For headings beginning All-Union *see* Union of Soviet Socialist Republics.
- Allen, James E., Jr.:
 addresses, etc.—
 Sept. 17, 1969, 15630
 Sept. 20, 1969, 15635
 Sept. 23, 1969, 15641
- Alloys, *see* names of metals, etc.
- Allsman, Paul L., gypsum, 16077
- Alluviums:
 alluvial, channel response to changes of hydraulic and sediment-transport variables, 15802
 sediment transport in alluvial channels (series), 15802
- Almanacs, air, 16292
- Altitude, high, life support systems in, USSR study, 15966
- Alton Jones Farm, make part of Eisenhower National Historic Site, reports, 15264, 15366
- Alumina, methods for producing from clay, evaluation of 2 line sinter processes, 16099
- Aluminum, size and loading effect on burning rate of solid propellants under acceleration, experimental investigation, 16163
- Aluminum oxide, *see* Alumina.
- Amantadine, anti-influenza drug, amantidine, evaluation of prophylactic activity, USSR study, 15950
- Ambassadors:
 nominations of—
 Humes, John P., to Austria hearing, 15454
 Martin, Graham A., to Italy, hearing, 15454
- American Federation of Labor and Congress of Industrial Organization, international role, hearing, 15451
- American Historical Association:
 report, 1961—
 departmental edition, 15028
 document edition, 15217
- American history, *see* History—Naval history.
- American Indians, *see* Indians.
- American Institute for Free Labor Development, programs and operation in Latin America, hearing, 15451
- American Nuclear Society, special sessions on gamma-ray production and transport and on civil defense shielding, proceedings, 15074
- American practical navigator, tables, 16297
- American Revolution Bicentennial Commission, appropriations, 1970, report, 15398
- American University, Students for a Democratic Society, hearings, 15322
- America's best hope, 16406
- America's department of natural resources, the Departments of Interior, 15848
- Amines, miscellaneous alcohols and amines technical grade military standard, 15528
- Ammonium perchlorate, base fuel combustion, effect of ionizing radiation, USSR study, 15899
- Amphibious operations, amphibious reconnaissance, Fleet Marine Force manual, 16041
- Anaheim, Calif., area wage survey, 16017
- Analysis, *see* names of substances analyzed.
- Analytical Coordination Chemistry Section, activities, July 1968-June 1969, summary, 16232
- Anatomy, counting characteristics of medium-level whole-body counter, 15076
- Anchorage, Alaska, International Airport, climatological summaries, 16488
- Angle of attack, angle of attack and bluntness, effects on laminar heating-rate distributions of 15° cone, 16190
- Angola, *see* Portuguese West Africa.

- Animals, Invertebrate and lower vertebrate, neoplasms and related disorders, 16258
Antelopes, pronghorn, habitat management, 16431
Antennas:
 loop, mutual impedance over finitely conducting ground, 15674
 right-angle cruciform slot, possibility of measuring radiation coefficients with allowance for their reciprocal effect, USSR study, 15919
Antiballistic missiles, *see* Missiles.
Antimony, minerals yearbook chapter, 16072
Aplite, minerals yearbook chapter, 16075
Apollo project, *see* Project Apollo (man-in-space program).
Appalachian region, woods, evaluating for highway posts, 15765
Apparel, *see* Clothing.
Appleman, Roy E., Milton Mine, Organ Pipe Cactus National Monument, Ariz., 16275
Apprentices:
 apprentice training, sure way to a skilled craft, 15029
 apprenticeship past and present, 15030
Apprenticeships, *see* Apprentices.
Approach lights, *see* Lights and lighting.
Appropriations:
 legislative, 1970—
 hearings, 15300, 15415
 report, 15271
 see also subjects, or names of departments, etc., for which appropriations are made.
Appropriations Committee, House:
 hearings, 15299-301
 reports, 15271, 15298
Appropriations Committee, Senate:
 hearings, 15415
 report, 15398
Apricots, fresh, feasibility of shipping jumble packed in fiberboard boxes, 14997
Aquifers, deep, underlying coastal Orange County, Calif., study, 15809
Aral Sea, Aral and Aspinus aspinus ibioides, biological data, USSR study, 15906
Arbitration Board, Federal Employees, *see* Federal Employees Board of Arbitration.
Arc (electric), *see* Electric arc.
Arcata, Calif., airport, simulation test of diamond runway centerline, 15692
Archaeology research series, 16267
Architect of Capitol:
 appropriations, 1970, legislative—
 hearings, 15415
 report, 15271
Architecture:
 definitive designs for naval shore facilities, 16289-290
 New York City, survey, 16274
 residential, northeast Georgetown, Washington, D.C., 16273
Archives, *see* Records.
Area development, *see* Redevelopment (city planning, etc.).
Area handbook, Lebanon, 15049
Area wage surveys, *see* Wages.
Arizona, census of business, 1967, wholesale trade, area statistics, 15100
Arkansas:
 electric rate book, 15721
 girly's invertebrate fossils from Fayetteville shale (Mississippian), revision, 15804
 southern Coastal Plain and Blackbelt areas, soil survey interpretations for woodlands, 16440
Arkansas County, Ark., community profile, 15537
Arkansas River, Webbers Falls Lock and Dam navigation project, hydraulic model investigation, 15668
Armed Forces:
 appropriations, 1970, military procurement—
 hearings, 15302
 report, 15295
Armed Forces—Continued
 capsule facts for Armed Forces (series), 15031
 courts-martial manual, 15526
 judge advocates and law specialist officers, procurement and retention, amend U.S. Code, hearing, 15305
 life insurance, Government program, proposals, hearing, 15336
 life insurance, servicemen's group—
 dismemberment coverage, amend U.S. Code, report, 15381
 double indemnity coverage, report, 15380
 increase, report, 15377
 proposals, hearing, 15336
 members, personal property traffic management regulation, 15035
 national service life insurance act, proposals, hearing, 15336
 postal systems, San Francisco critique, report, 15280
Armed Forces Information Service, DOD pamphlet, 15031
Armed Services Committee, House:
 hearings, 15302-307
 reports, 15245, 15295
Armed Services Committee, Senate:
 hearings, 15416-417
 report, 15413
Armed Services papers, 15302-307
Armel unit, *see* Missouri River Basin project.
Armor, body armor in hot humid environment, studies in heat acclimatized men 16057
Arms Control and Disarmament Agency:
 annual report, 15032
 centrex telephone directory, 16462
Army:
 Army logistician (periodical), 15023
 personnel, selection and classification tables of civilian-Army occupational relationships, 15050
 Reserve Officers Training Corps, step into your future, new ROTC program, 15051
 United States Army in World War II, 16071
Army Aviation Material Laboratories, technical reports, 15055-58
Army Department:
 appropriations, 1970—
 military construction, hearings, 15301
 public works, report, 15298
 Army regulations, 15034-35
 field manuals, 15042-43
 pamphlets, 15046-50
 SAFEGUARD antiballistic missile program, rotation of key military personnel report, 15790
 technical manuals, 15052-53
Army Materiel Command, coordinated recruitment program, annual progress report, 15054
Army Nurse Corps, *see* Nurse Corps, Army.
Armyworms, fall, use of virgin female traps to detect males and to determine seasonal distribution, 15005
ARPA, *see* Advanced Research Projects Agency.
ARS, *see* Agricultural Research Service.
Art, *see* Lithographs.
Artificial satellites, *see* Satellites.
Arts and crafts, trades and crafts, journeyman and junior levels, examination announcement, 15135
Arts and Humanities, National Foundation on, *see* National Foundation on the Arts and the Humanities.
Ash trays, *see* Trays.
Ashley, Burton E.:
 mineral industry of—
 Central American areas, 16081
 Mexico, 16086
Ashley County, Ark., community profile, 15538

INDEX

- Asia:
East Asian and Pacific series, 16463-464
United States role in future (address), 16464
- Asian Development Bank appropriations, 1970 hearings, 15299
- Assessing the economic scene, 15994
- Astronautics:
life support systems in high-altitude and space flights, USSR study, 15966
space flight investigations, opportunities for participation, 16212
- Astronauts:
American, provide gold medals for report, 15357
capabilities to maintain life support systems and cabin habitability in weightless conditions, study, 16130
Congressional Space Medal of Honor, award to, hearing, 15328
- Astrophysics:
astrophysical conditions, induced Compton effect in plasma and electromagnetic waves, 15063
plasma radiation process, 15069
- Atlanta, Ga.:
area wage survey, 16016
Atlanta Airport, climatological summaries, 16489
- Atlantic Coast:
North America tidal current tables, 15153
passenger lists of vessels arriving at ports (excluding New York) 1820-1874, supplemental index, pamphlet to accompany microcopy, 16220
- Atlantic Ocean:
North—
Station Bravo, oceanographic observations, 15155
Station Echo, oceanographic observations, 15156
- Atlantic-Pacific Interoceanic Canal Study Commission, appropriations, 1970, report, 15298
- Atmosphere:
airborne atmospheric research, ESSA Research Flight Facility, 15676
contaminant and atmospheric sensor, analytical study, phase 1, 16122
continuous air monitoring projects, National Air Surveillance Networks—
1965 data tabulations and summaries, 16358
1967 data tabulations and summaries
Chicago, 16359
St. Louis, 16360
Washington, D.C. 16361
Martian, density, analysis of gamma-ray backscatter technique for direct measurement, 16180
measurements of negative ion production in atmospheric gases, 16131
physics of atmosphere and ocean, USSR studies, 15945
see also Air.
- Atmospheric waves, *see* Waves.
- Atomic energy:
civilian nuclear power, use of thorium in nuclear power reactors, 15077
cooperation for civil uses, agreement with Iran, application of safeguards by IAEA, 16481
International Atomic Energy Agency to have greater share in U.S. resources (remarks), 15082
meeting the energy gap (remarks), 15080
nuclear information need, 15081
role of nuclear power in Northwest (remarks), 15084
- Atomic Energy Commission:
AEC research and development reports, 15062-77
appropriations, 1970, public works, report, 15298
developing human resources, AEC contractors' affirmative action programs, 15079
- Atomic Energy Joint Committee, committee print, 15215
- Atomic spectra, *see* Spectra.
- Atoms:
atom and your health (remarks), 15078
atoms in action, Nuclear Science Demonstration Center in Bucharest, inauguration ceremony (remarks), 15083
electronic structure, and Mendeleev's periodic law, USSR study, 15960
sodium atoms, multiphoton ionization, 15073
- Atropine, effects on composition of unstimulated human parotid fluid, 15018
- Attenuation, visible light by falling snow, 15038
- Attorneys, *see* Lawyers.
- Auditing:
Manpower Administration contracts, guide, 15995
Treasury Department, internal audit activities, GAO review, 15787
Veterans Administration, internal audit activities, need to improve and relocate, GAO report, 15784
- Auditors, internal auditor, Internal Revenue Service, 15868
- Auditory perception, *see* Perception.
- Audits, *see* Auditing.
- Australia:
economic trends and their implications for United States, 15878
telecommunication facilities on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement, 16472
- Austria, Ambassador, nomination of John P. Humes, hearing, 15454
- Authors, L.C. national union catalog, cumulative list, register of additional locations, 16039
- Autocology, *see* Ecology.
- Automatic data processing equipment, *see* Electronic data processing systems.
- Automation:
automation and telematics, translations, USSR study, 15953
International Federation of Automatic Control papers presented, June 16-21, 1969, Warsaw, USSR study, 15980
see also Mechanization.
- Automobile accidents, *see* Motor vehicle accidents.
- Avalanche diodes, and their application in microwave equipment, USSR study, 15924
- Aviation, *see* Aeronautics.
- Aviation fuel, *see* Motor fuel.
- Aviation machinist's mate J 1 & C, training manual, 16310
- Aviation medicine, *see* Medicine.
- Aviators:
commercial pilot, airplane flight test guide, 15688
pilot schools, Federal regulations, change, 15687
pilots and flight instructors certification, Federal aviation regulations, 15684
- Axial flow, *see* Flow.
- Azov, Sea of, lights and fog signals, list, change, 16303
- Azovskye More, *see* Azov, Sea of.

B

- Babcock, Clarence O., effect of increasing end constraint on compressive strength of model rock pillars, 16098
- Back Bay National Wildlife Refuge, general information, 16445
- Background and motivational characteristics of medical officer candidates for submarine service, 16068
- Background notes, 16459-461
- Backscatter, gamma-ray, analysis technique for direct measurement for density of Martian atmosphere, 16180

- Bacteriological warfare, *see* Biological warfare.
- Baking, *see* names of foods baked.
- Balance of payments:
interest equalization tax act on foreign securities, extend—
law, 151198
reports, 15234, 15406
- Ballistics, ballistic-range and shock-tube experiments, use of absolute radimeters, 16157
- Baltimore, Md., Friendship International Airport, climatological summaries, 16490
- Banking and Currency Committee, House:
hearings, 175308-310
report, 15297
- Banking and Currency Committee, Senate:
committee print, 154422
hearings, 15418-421
reports, 15356-357, 15371, 15376, 15397
- Banks and banking:
commercial banks bad debt reserves, tax reform hearings, summary of testimony, 15340
credit for purchasing or carrying margin stocks, regulation, amending, 15731
institutional investors, effect on securities market, study, extend time and increase authorization—
hearing, 15325
report, 15285
insured banks—
maximum rates of interest paid, regulations, extend, report, 15376
report, 15701
mortgage credit, make more available to homebuyers during periods of tight money, hearings, 15419
tax reform (remarks), 16514
- Barry, Anthony J., specifications for selected hydraulic-powered roof supports, 16079
- Basalt, petrology of basalt cores from Midway Atoll, 15807
- Basic studies of scale control, 15858
- Baths (chemistry):
Watts nickel electroplating bath, meta-benzenedisulfonic acid as stress-reducing additive, evaluation, 16152
- Bathymetry, International Indian Ocean Expedition, 1964, USC&GS ship Pioneer, data, 15151
- Bats, motion toward plane targets, and nature of changes of echolocative signals in process of target selection and recognition, USSR study, 15902
- Batteries, *see* Electric batteries.
- Bauer, Mary L., differentials in health characteristics by color, 16375
- Baum, Bernard, study of methods to retard compaction of cellulose acetate membranes in reverse osmosis desalination, 15861
- Baxter County, Ark., community profile, 15539
- Bayo, Francisco:
present value of DI benefits in current payment status, 16411
retirement experience of old-age beneficiaries, 1958-68, 16410
- Bays, *see* names of bays.
- Beach, Norman E., directory in plastics, knowledgeable Government personnel, 15532
- Beach erosion, effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
- Beams, *see* Electron beams.
- Bean, C. P., characterization of cellulose acetate membranes and ultrathin films for reverse osmosis, 15860
- Beans, *see* Soybeans.
- Bear River Migratory Bird Refuge, birds, list, 16448
- Bearings (machinery):
bearing, plain, Federal item identification guide, 15497
- Beaumont, Tex., area wage survey, 16014
- Bed forms generated in laboratory under an oscillatory flow, analytical and experimental study, 15648
- Beden Brook basin, N.J., floods, extent and frequency, 15797
- Beef, cured, dried, and smoked products, USDA, institutional meat purchase specifications, 15480
- Bees, visual stimuli as example of solution of abstract problems by bees, generalization, USSR study, 15990
- Behavior, driver behavior, 16246
- Belfort, G., hydrodynamic studies for electrodialysis, 15856
- Belgium:
consular convention, text, etc., 15353
selling in Belgium, 15171
- Belknap, George E., papers in Library of Congress, register, 16037
- Belknap, Reginald R., papers in Library of Congress, register, 16037
- Belorussian Soviet Socialist Republic, Academy of Sciences, history and activities, outline, 15981
- Bennett, Marianne K., effect of adsorbed monomolecular films on evaporation of volatile organic liquids, 16317
- Bentley, Helen D.:
remarks—
Oct. 16, 1969, 15715
Oct. 17, 1969, 15716
- Benton County, Ark., community profile, 15540
- Benzenedisulfonic acid, meta-benzenedisulfonic acid stress-reducing additive in Watts nickel electroplating bath, evaluation, 16152
- Berg, Dennis W., effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
- Berrier, Bobby L., effect of jet velocity and axial location of nozzle exit on performance of twin-jet afterbody model, 16161
- Berry, Frederick H., decay in upland oak stands of Kentucky, 15773
- Beryllium, liquid, viscosity, USSR study, 15941
- Bettner, James L., experimental investigation in annular cascade sector of highly loaded turbine stator blading, performance of jet-flapped blade, 16137
- Bibliography:
Air University Library series, 15022
American history—
departmental edition, 15028
document edition, 15217
community mental health centers, 16338
family planning, 1966-68, international, 16350
flood damage prevention, indexed, 16497
high temperature chemistry and physics of materials, 16226
highway safety literature index, 16240
housing, building and planning, overseas missions, bibliography, 15838
Marine Corps' concept of close air support, change sheets, 16044
marriage and divorce, statistical studies, 16352
mobile homes and parks, 16401
monitors of U.S. Navy, 1861-1937, 16306
Naval Aerospace Medical Institute reports, 16055
Naval history, 16307
optical atomic spectra, analyses, 16225
regeneration of white spruce with reference to Interior Alaska, 15775
small business, 16401
volunteer services in mental health, 16379
USSR, strategic survey, 15048
war, selected references, 15022
- Bills (congressional):
armed services, hearings on miscellaneous bills, 15304-307

INDEX

- Biofouling, *see* Fouling organisms.
- Biogeochemistry, Delta-Mendota Canal, Central Valley project, Calif., 16393
- Biological laboratory technicians, examination announcement, 15143
- Biological warfare, agents of bacteriological and chemical warfare, USSR study, 15911
- Biology:
- Aral asp *Aspius aspius ibiloides*, biological data, USSR study, 15906
 - bulletin of experimental biology and medicine (USSR periodical), translations, 15923
 - interaction in biological systems, USSR study, 15947
- Bionics:
- philosophical basis for subject matter, USSR study, 15973
 - problems of bionics, USSR, 15901
- Biota, fresh-water, effects of mineralized artesian waters in Taylor Slough, Everglades National Park, Fla., 15795
- Birch, yellow, rates of value increase in New England, 15767
- Birds:
- Bear River Migratory Bird Refuge, list, 16448
 - breeding survey, 16457
 - Deer Flat National Wildlife Refuge, list, 16449
 - Santa Ana National Wildlife Refuge, list, 16447
- Birmingham, Ala., International Airport, climatological summaries, 16491
- Birth control, international family planning, 1966-68, bibliography, 16350
- Bishop, Allan K., effect of electrothermal instabilities on Brayton-and Rankine-cycle magnetohydrodynamic space-power generation systems, 16195
- Bixby, Lenore E., some facts about employment of widowed mothers, 16417
- Bixler, H. J., final report on control of concentration polarization in reverse osmosis desalination of water, 15863
- Black Sea:
- dolphins (*Tursiops truncatus*), some distinctions of higher nervous activity, USSR study, 15927
 - lights and fog signals, list, change, 16303
- Blackwell, Robert J., remarks, Oct. 17, 1969, 16050
- Bladder, *see* Urinary organs.
- Blade, O. C., burner fuel oils, 16093
- Blades:
- composing compressor blading from simulated circular-arc elements on conical surfaces, computer program, 16183
 - flexible rotor, dynamic response to concentrated force moving from tip to root, 16167
 - highly loaded turbine stator blading in annular cascade sector, 16137
 - jet-flapped blades, performance, 16137
 - turbomachine blade-to-blade stream surface, FORTRAN program for calculating transonic velocities, 16176
- Blanch, G., Mathieu's equation for complex parameters, tables of characteristic values, 15015
- Blood:
- hematopoietic neoplasms, comparative morphology, 16259
 - medicare insurance coverage, 16421
 - subjects exposed to helium-oxygen environment at 7 atmospheres pressure, carbonic anhydrase analyses, 16061
- Blood pressure, serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease, Framingham study, 16255
- Blount, Winton M., remarks, Oct. 14, 1969, 16331
- BLS, *see* Labor Statistics Bureau.
- Blue collar workers, examination announcement, 15135
- Blum, Jerome B., remarks, Oct. 10, 1969, 15713
- Blumenson, Martin, Salerno to Cassino, United States Army in World War II, Mediterranean theater of operations, 16071
- Blunt bodies:
- blunt body equilibrium air flow field, modified method of integral relations approach including comparisons with inverse solutions, 16182
 - bluntness and angle of attack, effects on laminar heating-rate distributions of 15° cone, 16190
- Board of Arbitration, Federal Employees, *see* Federal Employees Board of Arbitration.
- Bobwhite, *see* Quail.
- Bodies of revolution:
- buckling of shells of revolution with various wall constructions, basic equations and method of solution, errata, 16120
 - having minimum total drag in hypersonic flow, 16184
- Body (human), *see* Anatomy.
- Body armor, *see* Armor.
- Bolinas Lagoon, sedimentation and hydrology, preliminary studies, 15801
- Bonds, *see* State bonds.
- Bonneville Power Administration, appropriations, 1970, report, 15298
- Books:
- Library of Congress—
 - list, 16034
 - national union catalog, cumulative author list, register of additional locations, 16039*see also* Printing books.
- Boone County, Ark., community profile, 15541
- Boots and shoes:
- copying shoe lathes, suspension of duty, continue, law, 15204
 - footwear, industry, wage survey, 16024
- Boschert, Gilbert P., system shakedown tests (C20N) NAS en route stage A model 1, functional package A, flight data processing, 15693
- Boston, Mass., General E. L. Logan International Airport, climatological summaries, 16492
- Botanic Garden, appropriations, 1970, legislative, report, 15271
- Botany, Smithsonian contributions to botany, 16403
- Boulder, Mont., batholith region, distribution of thorium, uranium, and potassium in igneous rocks and its bearing on radiogenic heat production and heat flow, 15805
- Boundary layer:
- and eddy formation in fish locomotion, USSR study, 15931
 - annular cascade sector of highly loaded turbine stator blading, experimental investigation, 16137
 - hypersonic turbulent nozzle-well, comparison of prediction methods and studies of relaxation, 16181
 - tripping elements in hypersonic flow, flow-field and drag characteristics, 16192
 - turbulent, function of ctenoid apparatus of fish in presence, USSR study, 15963
- Bowman, Roy G., remarks, Sept. 25, 1969, 16048
- Bown, Thomas A.:
- Louisiana 1968 plant materials annual progress report, 16436
 - Mississippi 1968 plant materials annual progress report, 16437

Boxes:

fiberboard, feasibility of shipping fresh apricots and prunes jumble packed, 14997

Federal item identification guide for supply cataloging, change, 15498

BPK, *see* Public Roads Bureau.

Brackets, Federal item identification guide, 15499

Bradley County, Ark., community profile, 15542

Brand new ball game, the 70's, 15704

Braniff Airways, Inc., aircraft accident, 16282

Bravo (ocean station), *see* Weather stations.

Brayton-cycle, magnetohydrodynamic space-power generation systems, effect of electro-thermal instabilities, 16195

Brazil, production and export of corn and rice, prospects for 1970's, 15624

Bread, baking, Army technical manual, 15052

Breeding, *see* names or classes of plants or animals.

The bridge to your success, 16385

Bridges:

construction on Federal highway projects, standard specifications, 16389

highway and railroad, alterations, etc., law, 15197

members, reinforced concrete, ultimate design, strength and serviceability criteria, 16390

The bright adventure of Army nursing, 15060

Brimmer, Andrew P., paper, Oct. 4, 1969, 15734

Broadcasting, *see* Television.

Broilers, *see* Chickens.

Bromeliaceae, foliar anatomy of genera *Conellia*, *Cottendorfia* and *Navia* (Bromeliaceae), monograph, 16403

Brooke, M. M., morphology of diagnostic stages of intestinal parasites of man, 16355

Brooks, Thomas W., synthesis and evaluation of new membrane candidates for application in reverse osmosis, 15857

Brown, Guy S., simulation test of Arcata, Calif., diamond runway centerline, 15692

Browne, Secor D.:

addresses, etc.—

Oct. 10, 1969, 15127

Oct. 16, 1969, 15126

Oct. 17, 1969, 15125

Bruce, Louis R., address, Oct. 9, 1969, 15847

Bruce, M. Melvin, estimation of variance by recursive equation, 16198

Bruce, Martin M., human relations in small business, 16402

Brush, chemical control, 14991

Bubbles, single, motion under gravitational conditions, 16196

Buckling, *see* Strains and stresses.

Budget of United States:

national goals and priorities, analysis of allocation of Federal budget resources, 16211

planning-programming-budgeting, defense analysis, examples, 15458

Budgets, *see* names of departments, etc.

Building:

construction, facilities for health research, etc., Public Health Service grants and awards, 16264

Hill-Burton, hospitals and related health facilities, representative costs, 16370

housing—

building and planning, overseas missions, bibliography, 15838

construction in hazardous geologic areas, Federal involvement, report, 15244

HUD construction contractors and craft unions investigation in Chicago (statement), 15843

Building—Continued

school construction, grants to increase educational opportunities, hearings, 15314

Building machinery, moving equipment, make sure it's clean first! plant pests often hitchhike in dirt, 15003

Building science series, 16223

Building (trades, health and safety in Federal and federally financed construction projects, promote, law, 15202

Buildings:

custodian, suggested guide for training course, 15628

Historic American Buildings Survey selections, 16273-274

maintenance man, suggested guide for training course, 15634

see also names of buildings.

Bulletin of experimental biology and medicine (USSR periodical):

translations, 15923

Bulletins, *see* Farmers' bulletins *also* names of departments, etc., issuing bulletins.

Bullis, W. Murray, methods of measurement for semiconductor materials, process control, and devices, 16229

Burma, crisis fleeing, military medicine, World War II, original reports, 15061

Burner fuel oil, *see* Fuel oil.

Burning, *see* Combustion.

Busch, William F., extent and frequency of inundation of Perkiomen Creek flood plain from Green Lane Reservoir to Schuylkill River, 15798

Bushnell, D., buckling of shells of revolution with various wall constructions, basic equations and method of solution, errata, 16120

Bushnell, Dennis M., comparison of prediction methods and studies of relaxation in hypersonic turbulent nozzle-wall boundary layers, 16181

Business:

business-government partnership (address), 15161

census, 1967—

retail trade, area statistics, 15090

selected services, area statistics, 15091-98

wholesale trade, area statistics, 15099-112

international business publications, checklist, 15889

minorities, journey into business (address), 15160

small business—

allocation of radio frequency spectrum and its impact, hearings, 15333

bibliographies, 16401

commerce export expansion activities, 15890

human relations, 16402

management series, 16402

overseas business reports, 15167-172

Business men, Commerce Dept. periodicals to aid businessmen, 15179

Buying, *see* Purchasing.

C

C.F.S. series, 15182-183

C.P.E.H.S., *see* Consumer Protection and Environmental Health Service.

CAB, *see* Civil Aeronautics Board.

Cabinet Committee on Opportunities for Spanish-speaking People, establish to replace Interagency Committee on Mexican-American Affairs, 15400

Calculating machines, *see* Cybernetics.

Calculations, *see* Numerical calculations.

Calfo, Frederick D., cryogenic fracture properties of thin AISI 301 60-percent cold-reduced sheet at various angles in rolling direction, 16168

INDEX

- Calhoun County, Ark., community profile, 15543
- Calibration, Pegasus and Explorer XXIII central and southern, floods, 15799
- detector panels, 16204
- California:
- disaster relief act of 1969 report, 15279
 - Indians, land value, compensate law, 15212
 - national forests, 15753
 - northern, sedimentation in upper Stony Creek basin eastern flank of coast ranges, 15815
 - water resources data, 15812
- California Region, progress report, progress in 1968, 15750
- Camera, television, handbook for extension workers, 15002
- Campbell, J. Phil, address, June 24, 1969, 14983
- Camps, 50-man winter camp at Tuto, Greenland, design and construction, 15651
- Campuses, *see* Colleges and universities.
- Canada:
- flood control payments by U.S., adjustments, agreement, 15355
 - pilotage services on Great Lakes and St. Lawrence Seaway, agreement, 16474
 - plastic mattress handles, determination of no injury to U.S. industry, 16493
- Canada geese, habitat management, 16426
- Canals, linings, investigations for use of plastic films, 16392
- Cancer, *see* Tumors.
- Canned foods, *see* names or classes of foods canned.
- Canning and preserving, canned deciduous fruit industry of South Africa, 15747
- Canyon City, Oreg.:
- flood plain information, 15655
 - floods, how to avoid damage, 15659
- Canyon Creek, flood plain information, 15655
- CAP (Community Action Programs), *see* Economic Opportunity Office.
- Cape Cod National Seashore, general information, 16268
- Capital, gains, tax reform hearings, summary of testimony, 15341
- Capital of United States, *see* District of Columbia.
- Capitol:
- building, extension of west central front, appropriations hearings, 15300
 - history, pictorial story, print as House document and provide additional copies, report, 15391
- Caps, and plugs, Federal Item identification guide, 15500
- Captive Nations Week, proclamations and pertinent material, print as House document, report, 15288
- Carbonic anhydrase, analyses on blood of subjects exposed to helium-oxygen environment at 7 atmospheres pressure, 16061
- Carbophos, methods of analyzing in aerosol containers and in air, USSR study, 15954
- Cardiovascular system:
- disease—
 - epidemiological investigation, Framingham study, 16255
 - serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of, Framingham study, 16255
- Cards, books, and records from Library of Congress, 16034
- Careers, *see* Civil service—Occupations.
- Cargo, *see* Ships.
- Cargo handling, rigging cargo gear, 16007
- Caribbean area, Communist threat to U.S., hearings, 15167
- Carles, *see* Teeth.
- Carlson, Charles E., stability analysis of slopes and embankment foundations, 16382
- Carriers, interstate commerce act, amend, hearing, 15429
- see also* Motor carriers—Telephone carriers—Water carriers.
- Carroll, R. D., electrical properties of earth at EMP Simulator Site, Fort Huachuca, Ariz., 15796
- Carroll County, Ark., community profile, 15544
- Cassens, M. R., bed forms generated in laboratory under an oscillatory flow, analytical and experimental study, 15648
- Cascade, annular, sector of highly loaded turbine stator blading, experimental investigation, 16137
- Cassino, Italy, Salerno to Cassino, United States Army in World War II, 16071
- Casualties, *see* Civilians.
- Catalog cards, Library of Congress, music and phonorecords, 16038
- Catalogs:
- copyright entries, 15485-488
 - FAA headquarters recurring reports, 15682
 - Federal supply catalog—
 - consolidated master cross reference list, 15523
 - GSA stock catalog identification list, 15737
 - Library of Congress—
 - music and phonorecords, 16038
 - national union catalog, register of additional locations, 16039
 - National Bureau of Standards, standard references materials, quarterly insert sheets, 16224
- Catalysts, light-catalyzed chlorine oxidation for treatment of wastewater, investigation, 15744
- Cathart, James B., phosphate rock in Colombia preliminary report, with section on phosphate occurrence at Turmeque, 15793
- Cathodes, MHD generator, emitting in spot mode, analytical and experimental studies, 16169
- Catoctin Mountain Park, general information, 16269
- Caughey, David A., second-order wave structure in supersonic flows, 16144
- Cavitation, damage and effect of fluid temperature on performance of axial-flow pump in liquid sodium, 16202
- Cayuse Indians, *see* Umatilla Reservation.
- Celestial bodies, two-alarm sky survey, preliminary catalog, 16150
- Cells:
- cell frequencies, two analysis-of-variance programs for disproportionate type, 16059
 - scientists approach sources of life, USSR study, 15967
- Cellulose acetate:
- membranes—
 - and ultrathin films, for reverse osmosis, characterization, 15860
 - methods to retard compaction in reverse osmosis desalination, study, 15861
- Cement, pozzolanic raw materials resources in western United States, 16078
- Census:
- agriculture, 1964, final reports, 15121
 - business, 1267—
 - retail trade, area statistics, 15090
 - selected services, area statistics, 15091-98
 - wholesale trade, area statistics, 15099-112
 - census 1970, electronic data processing equipment for tabulating facts, 15118
 - confidentiality of information, amend U.S. Code, reports, 15237, 15277
 - Uncle Sam counts, story of census '70, 15164
- Central America, mineral industry, minerals yearbook chapter, 16081
- Central nervous system, *see* Nervous system.
- Central States, pozzolanic raw materials resources, 16078

- Central Valley project:
Delta-Mendota Canal, biogeochemistry, 16393
history and achievement, 16391
- Centralization of Federal science activities, 15226, 15289
- Certificates, *see* subjects involved.
- Certification of air carriers, *see* Air carriers.
- Cesium:
high-temperature cesium-vapor thyra-
trons—
development and inverter testing, 16142
reduction of recovery time, 16133
- Chaco Canyon National Monument, general
information, 16270
- Challenge of development, 15892
- Chambers, Joseph R., analysis of flat-spin
characteristics of twin-jet swept wing
fighter airplane, 16166
- Channels:
alluvial, response of channel to changes
of hydraulic and sediment-transport
variables, 15802
sediment transport in alluvial channels
(series), 15802
- Chappelle, Daniel E., computer program for
evaluating forestry opportunities under
three investment criteria, 15774
- Charleston, W. Va., aircraft accident, 16284
- Charters, Federal, to nonprofit corporations,
standards for granting, 15469
- Chase, Francis S., national program of edu-
cational laboratories, 15637
- Charring ablators, *see* Ablating materials.
- Checklists, *see* subjects.
- Checkout, microcontrol and diagnosis of mal-
functions in digital computers, 15978
- Checks, and other items, collection, regula-
tion, amendment, 15730
- Chemical warfare, agents or bacteriological
and chemical warfare, USSR study, 15911
- Chemicals:
agricultural, registered pesticides, insecti-
cides, repellants, acaricides, summary of
uses, 14981
control of brush and trees, 14991
see also Organic compounds.
- Chemistry:
cybernetics methods in chemistry and
chemical technology, 15936
high temperature chemistry and physics of
materials, 16226
- Chemotherapy, chemical therapy in virus in-
fections, certain problems, USSR study,
15938
- Cheoah River, and tributary creeks in vicinity
of Robbinsville, N.C., floods, 16503
- Cheyenne, Wyo., land conveyance, report,
15404
- Chicago, Ill.:
continuous air monitoring projects, Na-
tional Air Surveillance Networks
1965 data tabulations and summaries,
16358
1967 data tabulations and summaries,
16359
- Chickens:
commercial broiler farms, costs and re-
turns, Georgia, 15621
traits of chickens, heritabilities and of
genetic and phenotypic correlations esti-
mates, 14986
- Chicot County, Ark., community profile,
15545
- Child development, *see* Children.
- Child life, *see* Children.
- Child study, *see* Children.
- Children:
child protection act of 1969, reports, 15228,
15252
children with specific learning disabilities
act of 1969, report, 15270
gifted and talented, educational assistance
act, report, 15269
handicapped, education, grant program for
preparation of professional personnel,
manual, 15639
- Children - Continued
research programs, studies in progress,
15124
States can help many children and families,
15122
see also Orphans.
- Children's Bureau, publications, 15122-123
- China:
Communist, mainland, mineral industry,
minerals yearbook chapter, 16085
Republic, *see*, in main alphabet, Taiwan.
- Chioti, P., nuclear metallurgy, symposium
on processing of nuclear fuels, 15075
- Chip-bud method of propagating vinifera
grape varieties on rootstocks, 14996
- Chlorine, light-catalyzed chlorine oxidation
for treatment of wastewater, investigation,
15744
- Cholesterol serum, systolic blood pressure and
Framingham relative weight as discrimi-
nators of cardiovascular disease, Framing-
ham study, 16255
- Chouteau Lock and Dam, Verdigris River,
designate, report, 15370
- Christmas, 6-cent commemorative postage
stamp (poster), 16324
- Chromatography, gas chromatography used
to study air pollution, 15920
- Chromium, minerals yearbook chapter, 16073
- Chukars, *see* Partridges.
- Chyu, Wei J., power- and cross-spectra and
space-time correlations of surface fluctu-
ating pressures, 16185
- Ciarrocchi, Joyce D.:
quarterly abstracts of passenger lists of
vessels arriving at New Orleans, 1820-
1875, pamphlet to accompany microcopy,
16218
supplemental index to passenger lists of
vessels arriving at Atlantic and Gulf
Coast ports (excluding New York), pam-
phlet to accompany microcopy, 16220
- Cincinnati, Ohio, continuous air monitoring
projects, National Air Surveillance Net-
works, 1965, data tabulations and sum-
maries, 16358
- Circulars, *see* names of departments, etc.,
issuing circulars.
- Cirillo, Julie A., analysis and modeling of
relationships between accidents and geo-
metric and traffic characteristics of inter-
state system, 16380
- Cities and towns:
better cities through better government
(address), 15823
communities of over 1000 population with
water containing in excess of 1000 ppm
of total dissolved solids, 15859
evaluating urban transportation systems,
16386
housing and urban development programs,
progress report, 15424
metropolitan areas—
1967-1968 population estimates, 15116
wage trends for occupational groups,
16031
model cities program, extend, reports,
15297, 15371
population trends, hearings, 15309
role of the central city (address), 15841
work and workers in urban setting, chang-
ing patterns, 16026
- Citizenship, Federal textbook on citizenship,
15846
- Civil Aeronautics Board:
air carriers, acquisition of control, unlaw-
ful without CAB approval, amend
act—
law, 15210
report, 15241
operations, efficiency, and effectiveness,
hearing, 15318
- Civil Air Patrol, civil defense programs,
15132
- Civil defense, *see* Civilian defense.

INDEX

- Civil Defense Office:
 - leaflets, 15132-132
 - technical reports, 15133
- Civil disorders, *see* Riots.
- Civil disturbances, *see* Riots.
- Civil service:
 - career opportunities—
 - aerospace technology positions with NASA, 15143
 - National Institutes of Health, 16252
 - examination announcements—
 - biological laboratory and agricultural research technicians, 15143
 - current, 15137
 - Washington, D.C., metropolitan area, 15138
 - junior Federal assistant, 15144
 - photographers and photographers (laboratory), 15139
 - technical aids in science and engineering, 15145
 - trades and crafts, equipment operation and repair at journeymen and junior levels and for blue collar helper, 15135
 - examinations, sample questions, 15150
 - Federal career literature, guide, 15141
 - Federal jobs overseas, 15147
 - selective placement of physically handicapped, etc., handbook, 15142
- Civil Service Commission, pamphlets, 15146-149
- Civil service pensions:
 - retirement system—
 - Federal employee facts, corrected copy, 15140
 - financing and benefits, amend U.S. Code, report, 15359
- Civilian defense:
 - Civil Air Patrol and civil defense programs, 15132
 - Future Farmers of America and civil defense programs, 15131
 - medical materials or supplies stored for national emergencies, transfer to another Federal agency before shelf life expires, report, 15402
 - shielding and gamma-ray production and transport, special sessions, proceedings, 15074
- Civilians, civilian casualty, social welfare and refugee problems in South Vietnam, hearings, 15465
- Claims:
 - Alaska native claims settlement act of 1969, hearings, 15321
 - international claims settlement act of 1949, amend report, 15272
- Clamps, hub clamps, Federal item identification guide, 15515
- Clark, Melville, Jr., feasibility of detecting radiation scattered from plasma, 16154
- Clark, Ronald K., simulation of pyrolysis-gas flow through char layer during ablation, 16197
- Clark County, Ark., community profile, 15546
- Clay, suspensions, dielectric properties in frequency range from 50 Hz to 20 kHz, 15650
- Clay County, Ark., community profile, 15547
- Clean Air Act, *see* Air pollution.
- Cleavinghouse for Research in Child Life, research relating to children, 15124
- Cleary, Joseph W., effects of angle of attack and bluntness on laminar heating-rate distributions of 15° cone, 16190
- Cleary, R. E., testing of high-emittance coatings, 16132
- Cleburne County, Ark., community profile, 15548
- Cleft lip, *see* Harelip.
- Cleft palate, U.S. facilities providing cleft palate services, National Institute of Dental Research directory, 16260
- Clephane, Lewis P., history of Naval Overseas Transportation Service in World War I, 16305
- Cleveland County, Ark., community profile, 15549
- Climate:
 - climatological summaries, visibilities below $\frac{1}{2}$ mile and ceiling below 200 feet—
 - Atlanta Airport, Atlanta, Ga., 16489
 - Friendship International Airport, Baltimore, Md., 16490
 - General E. L. Logan International Airport, Boston, Mass., 16492
 - International Airport, Anchorage, Alaska, 16488
 - International airport, Birmingham, Ala., 16491
- Clinics, portable clinical suction device for use in hyperbaric chambers, 16064
- Closures, covers and doors, access, Federal item identification guide, 15503
- Clothing:
 - coats and coat-like garments, Federal item identification guide, 15501
 - labor in apparel industries, 16025
- Coal mines and mining:
 - Federal coal mine health and safety act of 1969, report, 15390
 - health and safety of coal miners, improve working conditions—
 - hearings, 15470
 - report, 15390
- Coal Research Office, appropriations, 1970, report, 15398
- Coalinga Canal, designate, report, 15278
- Coast and Geodetic Survey, publications 15152
- Coast Guard:
 - appropriations of vessels, etc., authorization, law, 15197
 - construction of shore and offshore establishments, appropriation, authorization, law, 15197
 - oceanographic reports, 15154-156
- Coast Guard stations, appropriations for vessels, etc., authorization, law, 15197
- Coast Ranges, eastern flank in northern California, sedimentation in upper Stony Creek basin, 15815
- Coastal Engineering Research Center:
 - miscellaneous papers, 15646
 - reprint R. (series), 15647
 - technical memorandums, 15648
- Coastal Plains, southern, and Blackbelt areas of Arkansas, Louisiana, Oklahoma, and Texas with rainfall of 25 to 30 inches during frost-free period, 16440
- Coated surfaces, *see* Surfaces.
- Coating materials:
 - emissivity coatings for low-temperature space radiators, 16136
 - high-emittance coatings, testing, 16132
 - see also* Surfacing materials.
- Coats, and coat-like garments, Federal item identification guide, 15501
- Cochrane, Henry C., papers in Marine Corps Museum, 1841-1957 and undated register, 16043
- Cockpits (aircraft):
 - environmental data for XB-70 airplanes, summary, 16189
- Cockroaches, how to control them, 14994
- Code of Federal regulations, *see* for titles, chapters, etc., of the Code printed separately, subject involved.
- Codes of law, United States, title 13, amend, reports, 15237, 15277
- Coefficients:
 - discharge, for thick plate orifices with approach flow perpendicular and inclined to orifice axis, 16199
 - radiation coefficients of right-angle cruciform slot antennas, possibility of measuring with allowance for reciprocal effect, USSR study, 15919
- Cohen, Allan J., electron bombardment thruster operated with cusped magnetic field, 16188

- Cohen, Edwin S., remarks, Sept. 30, 1969, 16515
- Cohen, Gerald A., synthesis of optimum structural designs for conical and tension shell Mars entry capsules, 16121
- Coinage, *see* Silver (money).
- Coinage Joint Commission, recommendations, hearings, 15308
- Coins, coinage act of 1969, hearings, 15308
- Cold regions:
characteristics, 15652
foundations of structures in cold regions, 15040
science and engineering series—
engineering, 15040
environment, 15652
- Cold Regions Research and Engineering Laboratory:
research reports, 15038, 15619-650
technical reports, 15039, 15651
- Cole, John W., minor metals, 16090
- Collectors and collecting, duck stamp data, information for stamp collectors and conservationists, 16442
- Colleges and universities:
campus unrest, hearings, 15312-313
curricula in marine sciences and related fields, 16237
distributive education, post secondary, guide for administrators and teachers, 15638
emergency insured student loan amendments of 1969, reports, 15249, 15368
financial statistics, 1966-67, property, 15631
higher education act of 1965, amend. reports, 15249, 15368
higher education amendments of 1968, hearings, 15312-313
institutions of higher education, index by State and congressional district, 15633
making contemporary, our colleges and universities (address), 15635
national institutional grants program, report, 15274
national program of educational laboratories, 15637
universities and environmental quality, commitment to problem focused education, report, 16399
- Collins, J.A., Smithsonian international exchange service, annual report, 16405
- Colombia, phosphate rock, preliminary report, with section on phosphate occurrence at Turmeque, 15793
- Color of man, health characteristics by color, differentials, 16375
- Colorado:
floods of June 1965 in South Platte River basin, 15816
surface water, occurrence and distribution of molybdenum, 15814
water resources data, 15813
- Coloring books, *see* Painting books.
- Colson, B. E., surface water resources of Yolo River system, 1963-68, 15810
- Columbia County, Ark., community profile, 15550
- Columbium, *see* Niobium.
- Combat vehicles, *see* Motor vehicles.
- Combustion, effect of aluminum size and loading on burning rate of solid propellants under acceleration, experimental investigation, 16163
- Commerce:
foreign agricultural trade by commodities, 15626
foreign trade, United States, 1967-69, quarterly, 15167
foreign trade regulations—
Israel, 15168
Saudi Arabia, 15172
Turkey, 15169
grow with world trade (address), 15888
international trade, to aid, promote and foster (remarks), 15715
- Commerce—Continued
interstate commerce act, amend, report, 15293
relationship between regulation of transportation and export commerce (remarks), 15714
small business participation in export expansion activities, 15890
steamship lines in foreign commerce of U.S. approved conference, rate and interconference agreements, 15710
see also Tariff.
- Commerce Committee, Senate, hearings, 15425-429
- Commerce Department:
periodicals to aid businessmen, 15179
serving a growing economy and a growing people, 15181
outline, 15180
- Commercial banks, *see* Banks and banking.
- Commercial fisheries, *see* Fish and fisheries.
- Commercial Fisheries Bureau:
appropriations, 1970, report, 15398
special scientific reports, fisheries series, 15184
- Comminution, ultrafine comminuted powders, used for producing dispersion-strengthened nickel, 16172
- Commission on Government for District of Columbia, *see* District of Columbia Commission on Government.
- Commission on Government Procurement, *see* Government Procurement Commission.
- Commission on Population Growth and American Future, *see* Population Growth and American Future Commission.
- Committees, *see* names of committees.
- Commodities, *see* Agricultural products.
- Common carriers, *see* Carriers.
- Communications:
act of 1934, amend—
hearings, 15428
report 15259
communication efficiency of quantum systems, 16203
scientific and technical, U.S. Government, progress, 15699
- Communism, Caribbean threat to U.S., hearings, 15467
- Communist Party of Puerto Rico, activities, Communist threat to U.S., hearings, 15467
- Communities, *see* Cities and towns—Rural communities.
- Community Action Programs, *see* Economic Opportunity Office.
- Community development programs, community action programs, CAP mission guide, participation of the poor in community decision-making process, 15536
- Community facilities:
community mental health centers act, amend, hearings, 15471
community mental health centers amendments of 1969, hearings, 15471
- Community profile, 15537-612
- Community relations, minority community, spirit and flesh problems (address), 15996
- Community service and continuing education program of Office of Education, 14972
- Compacting, cellulose acetate membranes in reverse osmosis desalination, study of methods to retard, 15861
- Compacts (interstate), *see* Interstate agreements.
- Comparative morphology of hamatopoietic neoplasms, 16259
- Compensation, *see* Pensions—Salaries.
- Composite materials, filament-stiffened sheet, stress concentration around broken filaments, 16191
- Compressible flow, *see* Flow.
- Compression, high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stability, 15062

INDEX

- Compressors, composing compressor blading from simulated circular-arc elements on conical surfaces, computer program, 16183
- Compton effect, induced, in plasma and electromagnetic waves under astrophysical conditions, 15063
- Computer programs/programming:
- BOSOR, buckling of shells of revolution with various wall constructions, errata, 16120
 - cells frequencies, 2 analysis of variance programs for disproportionate type, 16059
 - composing compressor blading from simulated circular-arc elements on conical surfaces, 16183
 - computed-plotted stereographic projections, 16315
 - computed program abstracts (periodical), 16118
 - evaluating forestry opportunities under 3 investment criteria, 15774
 - fortran programs—
 - analysis of ellipsometer measurements, errata, 16227
 - calculating transonic velocities on blade-to-blade stream surface of turbomachine, 16176
 - hydraulic analysis of pipe-arch culverts, 16381
 - investigation of isothermal compressible flow across rotating sealing dam, 16155
 - multiple correlations and related statistics, 16059
 - rigid rotor dynamics, 16125
 - stability analysis of slopes and embankment foundations, 16382
- Computers, occupation analysis of computers in medical sciences, 16001
- Computing machine, *see* Cybernetics.
- Concrete:
- reinforced, bridge members, ultimate design, strength and serviceability criteria, 16390
 - unreinforced, tunnel linings, structural design data, 16097
 - vibration, mechanical impedance measurements, study, 15667
- Condon, Lester P., address, Oct. 10, 1969, 15825
- Cones:
- angle of attack and bluntness, effect on laminar heating-rate distributions, 16190
 - conical surfaces, computer program for composing compressor blading from simulated circular-arc elements on, 16183
- Confederated Salish and Kootenai Tribes of Flathead Indians, *see* Flathead Indians—Kootenai Indians.
- Confederated Tribe of Umatilla Reservation, *see* Umatilla Reservation.
- Conference committees, reports, 15279, 15281
- Conferences, congresses, etc., *see* names of conferences, etc.—*also* subject of conference.
- Configurations, tabulations of configuration factors between any 2 spheres and their parts, 16151
- Congress of United States, Congressional Record, 90th Congress, 2d session, bound volumes, 15185-188
- Congressional record, *see* Congress of United States.
- Congressional serial set, 15189-193
- Congressional Space Medal of Honor, *see* Space Medal of Honor.
- Conn, Richard, United States and International Labor Organization, 16006
- Connellia, *see* Bromeliaceae.
- Conservation, *see* Natural resources—*also* subjects.
- Consolidated master cross reference list, 15523
- Constance, Ky., aircraft accident, 16285
- Constitution of United States, amendments, election of the President and Vice President by direct popular vote, proposal, reports, 15227, 15229
- Construction, *see* Building—Building trades
- Construction industry—Roads and highways.
- Construction industry, health and safety in Federal and federally financed construction projects promote, law, 15202
- see also* Building.
- Consuls:
- convention with, Belgium, text, etc., 15353
 - U.S., dispatches, from La Paz, Mexico, 1855-1906, pamphlet to accompany microcopy, 16219
- Consumer and Marketing Service, service and regulatory announcements, 15483
- Consumer credit, *see* Credit.
- Consumer income, *see* Income.
- Consumer Protection and Environmental Health Service, food standards for Nation's food supply as CPEHS sees it (address), 16337
- Consumers:
- and the farmer, 14990
 - credit insurance act of 1969, hearings, 16418
- Contacts (electric), *see* Electric contacts.
- Containers:
- aerosol, methods of analyzing organophosphorus insecticides, trichlorometaphos and carbophos, USSR study, 15954
 - cargo, ocean freight forwarding future (remarks), 15712
 - containerization—
 - new action program (remarks), 15894
 - regulatory jurisdiction over joint shipping rates in foreign countries (remarks), 15713
 - experimental export shipment of cotton in containers, report, 16054
- Contaminants, contaminant and atmospheric sensor, analytical study, phase 1, 16122
- Contractions, *see* Abbreviations.
- Contractor report NASA CR (series), 16120-146
- Contractors:
- data and reports, management, 15014
 - developing human resources, AEC contractors' affirmative action programs, 15079
 - National Highway Safety Bureau contractors report, executive summaries, 16239
 - see also* Government contracts.
- Contracts, *see* Government contracts.
- Control systems:
- contractor data and reports, management, 15014
 - management systems, regulation and control, USSR study, 15898
- Converse (U.S.S.):
- loan, extension, agreement with Spain, 16482
- Conway County, Ark., community profile, 15551
- Coolidge, A. W., jr.:
- development and inverter testing of high-temperature cesium-vapor thyatrons, 16142
 - reduction of recovery time in high-temperature cesium vapor thyatrons, 16133
- Cooper, Barbara S., national health expenditures, 16418
- Coordinates, State plane coordinate intersection tables, 15152
- Coordinator's scoreboard, review of what's new in placement of the handicapped, 15136
- Coos Bay:
- engineers report—
 - departmental edition, 15653
 - document edition, 15221

- Copes, Donald, effect of graft type on 6-month scion survival of field grown Douglas-fir graft, 15759
- Copper, extraction from oxides using iron and steel scrap, principles and application to pure systems, 16101
- Copying process, copying shoe lathes, suspension of duty, continue, law, 15204
- Copyright:
catalog of copyright entries, 15485-488
fair use of copyrighted works, 15489
- Copyright Office, circulars, 15489
- Corn, production and export in Brazil, prospects for 1970's, 15624
- Corn Creek unit, *see* Missouri River Basin project.
- Corporation for Public Broadcasting, *see* Public Broadcasting Corporation.
- Corporations, subchapter S, tax reform hearings, summary of testimony, 15346
- Correlation (statistics):
programs for computing multiple correlations and related statistics, 16059
- Corrosion and anticorrosives, hot-salt-stress-corrosion cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium-alloy sheet, 16170
- Cosines, *see* Trigonometry.
- Cost, farm costs and returns, 15619-621
see also subjects.
- Cost and standard of living, living standards in New York City, changing patterns, facts, 16028
- Cottendorfia, *see* Bromeliaceae.
- Cotton:
commercial cotton farms, costs and returns, Mississippi Delta, 15620
experimental export shipment of cotton in containers, report, 16054
nyctitropic movement as false wilt symptom, 14974
- Cotton gins and ginning, gin-stand research at Stoneville, Miss., 1956-66, 15007
- Cottonseed, quality, 1968 crop, 15479
- Council on Environmental Quality, *see* Environmental Quality Council.
- Counting devices, medium-level whole-body counter, counting characteristics, 15076
- Countries, *see* Foreign countries.
- Courts, District of Columbia, reorganize, report, 15384
see also names of courts.
- Courts-marial and courts of inquiry, 1969 manual, 15526
- Covers, and doors, access, Federal item identification guide, 15503
- Cox, Lawrence M.:
addresses, etc.—
Sept. 19, 1969, 15841
Sept. 23, 1969, 15824
Oct. 13, 1969, 15842
- Cox, R. G., characteristic pressure distribution in outlet works inlets, 15666
- CPEHS, *see* Consumer Protection and Environmental Health Service.
- Cracking of metals, *see* Fracture of metals.
- Crafts, *see* Arts and crafts.
- Craig, Roger A., absolute radiometers for use in ballistic-range and shock-tube experiments, 16157
- Craighead County, Ark., community profile, 15552
- Cranes, derricks, etc., trestle cranes, diagrams, and specifications, USSR study, 15964
- Crash rescue, *see* Aircraft accidents.
- Crashes, *see* Aircraft accidents—Motor vehicle accidents.
- Crates, Federal item identification guide for supply cataloging, change, 15498
- Crawford County, Ark., community profile, 15553
- Credit:
by banks for purchasing or carrying margin stocks, regulation, amendment, 15731
- Credit—Continued
consumer credit insurance act of 1969, hearings, 15418
consumer credit insurance transactions, protect from abuses relative to excessive charges for life, health, and accident insurance, hearings, 15418
foreign credits of United States Government, 16512
letter of credit procedures (recipient organizations), HUD handbook, 15828
securities, by persons other than banks, brokers, or dealers, regulation, amendment, 15729
see also Banks and banking.
- Credit unions, *see* Federal credit unions.
- Creep of metals, high temperature creep-rate data, statistical analysis, for alloys of tantalum, molybdenum, and columbium, 16175
- Crime and criminals:
omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
riots, civil and criminal disorders, investigation, hearings, 15459
print additional copies, reports, 15363-364, 15386-388
- Criminal law, omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
- Criminal procedure, *see* Searches and seizure.
- Crisis and opportunity (remarks), 16049
- Crisis fleeting, original reports on military medicine in India and Burma in Second World War, 15061
- Crittenden County, Ark., community profile, 15554
- Crops, *see* names of crops.
- Cross, William B., nitinol characterization study, 16140
- Cross County, Ark., community profile, 15555
- Crouse, James E., computer program for composing compressor blading from simulated circular-arc elements on conical surfaces, 16183
- CRREL, *see* Cold Regions Research and Engineering Laboratory.
- Cruises, ocean vessels, operating differential subsidy, remove certain limitations, report, 15292
- Crustaceans, recent Ostracodes of family Pontocyprididae, chiefly from Indian Ocean, 16404
- Cryogenics:
fracture properties of thin AISI 301-60-percent cold-reduced sheet at various angles to rolling direction, 16168
nuclear radiation at cryogenic temperatures on tensile properties of titanium and titanium-base alloys, effect, 16186
water-to-cryogenic-hydrogen heat exchanger, heat transfer characteristics, 16178
- Ctenoid scales, *see* Scales (fishes).
- Cuba, claims of American nationals, extend time, report, 15272
- Cubans, refugees, assistance, appropriations, 1970, hearings, 15299
- Culture:
influences on children, research programs, studies in progress, 15124
model as system of games, USSR study, 15987
- Culverts, pipe-arch, hydraulic analysis, electronic computer program for, 16381
- Cunanan, Walter S., cavitation damage and effect of fluid temperature on performance of axial-flow pump in liquid sodium, 16202
- Cunnington, G. R., emissivity coatings for low-temperature space radiators, 16136
- Current fishery statistics, C.F.S. series, 15182-183
- Currents, *see* Electric currents.

INDEX

Curriculum, university curricula in marine sciences and related fields, 16237
 Cushing, Leonard F., papers in Library of Congress, register, 16035
 Custis-Lee Mansion, Arlington, Va., general information, 16271
 Custodians, building, suggested guide for training course, 15628
 Customs, *see* Tariff.
 Cybernetics:
 methods in chemistry and chemical technology, 15936
 regulation theory and mathematics, 15985
 Soviet, translations, 15913
 Cylinders, diffraction of cylindrical hydro-acoustical wave at junction of 2 semi-infinite plates, USSR study, 15952
 Cyprus, plant quarantine import requirements, 14976
 Cysts, periapical, mandibular incisors with large area of bone involvement, conservative management, case report, 16062
 Czechoslovakia:
 legal regulations published, 1968, subject index, 15900
 mineral industry, minerals yearbook chapter, 16082

D

D.C., *see* District of Columbia.
 Daane, J. Dewey, remarks, Sept. 8, 1969, 15727
 Daily river stages, 16526
 Dalbow, Theodore, air traffic patterns for IFR and VFR aviation, 15679
 Dallas, Tex., floods, northern part, Apr. 28, 1966, 15818
 Dallas County, Ark., community profile, 15556
 Dalton, Charles C., determination of meteoroid environments from photographic meteor data, 16205
 Damping of vibration, *see* Vibration.
 Data, *see* subjects.
 Data acquisition, requirements statements for selected equipment, 15673
 Data Acquisition Division, Office of Meteorological Operations, Silver Spring, Md., BSSA technical memorandum WBTM-DATAC series, 15673
 Data management, 15014
 Data processing, *see* Electronic data processing systems.
 Data systems, *see* Electronic processing systems.
 DATAC, *see* Data Acquisition Division, Office of Meteorological Operations, Silver Spring, Md.
 Davis, Kenneth N., Jr., address, Sept. 29, 1969, 15165
 Davis, L. E. antimony, 16072
 Dawson, Tex., aircraft accident, 16282
 Day care of children:
 trust funds for day care centers, employer contributions, report, 15283
 who will take care of your child when you are in training or on the job? 15123
 Dayton, Ohio, Metropolitan Intrastate Air Quality Control Region, report for consultation, 16369
 DCA, *see* Defense Communications Agency.
 Deaf, mental health programs, 16354
 Debates and debating, high school topic 1969-70, selected excerpts and references, 15224
 Debt, bad debt reserves of commercial banks, tax reform hearings, summary of testimony, 15340
 Debugging, *see* Checkout.
 Decay (timber):
 micro-organisms decay capabilities in wood chip piles, new method for appraising, 15762
 upland oak stands of Kentucky, 15773
 Deciduous fruits, *see* Fruit.
 Decisionmaking, process, participation of the poor in community decisionmaking process, CAP mission guide, 15536
 Decisions, *see* names of courts, etc., rendering decisions.
 Deductions, *see* Income tax.
 Deer Flat National Wildlife Refuge, birds, list, 16449
 Defense, *see* National defense.
 Defense communications, *see* Military communications.
 Defense Communications Agency, DCA circulars, 15491
 Defense Department:
 appropriations, 1970, civil functions, report, 15298
 appropriations, 1970, military procurement—
 authorization, report, 15295
 hearings, 15302
 DoD pamphlet, 15031
 High School News Service report (periodical), 15524
 Incentive contracting guide, 15495
 manual DSAM series, 15493-494
 market for wooden pallets, 15769
 military standards, 15527-530
 reserve forces, annual report, 15492
 travel regulations, civilian personnel, 15525
 Defense disposal manual, 15494
 Defense Supply Agency, manual DSAM series, 15493-494
 Definitive designs for naval shore facilities, changes, 16289-290
 Defoliants, military use in Vietnam, technology assessment, 15331
 Degrees (colleges, universities, etc.):
 college degree, training, for job, 15636
 DeHuff, Gilbert L., nickel, 16091
 Delaware River Basin Commission, appropriations, 1970, report, 15298
 Delegates, *see* House of Representatives.
 Delphinus delphis, *see* Dolphins.
 Delta-Mendota Canal, Central Valley project, Calif., biogeochemistry, 16393
 Delta wings, *see* Wings (aircraft).
 Density:
 Martian atmosphere, analysis of gamma-ray-backscatter technique for direct measurement, 16180
 probability density functions of n vectors added with random directions, 16316
 Dental care, *see* Dentistry.
 Dental caries, *see* Teeth.
 Dental diseases, *see* Teeth.
 Dental health, *see* Teeth.
 Dentistry:
 dental services for American Indians and Alaska natives, annual report, 16339
 mandibular incisors with large area of bone involvement, conservative management, case report, 16062
 Denver, continuous air monitoring projects, National Air Surveillance Projects, 1965, data tabulations and summaries, 16358
 DePalma, John R., marine biofouling at Penobscot Bay, Maine, and Placentia Sound, Newfoundland, 1960-68, 16293
 Dependents, *see* Pensions.
 Depreciation, treatment of tax depreciation by regulatory agencies, tax reform hearings, summary of testimony, 15349
 Depth perception, *see* Perception.
 Desalination:
 research, Oak Ridge, 15862
 reverse osmosis—
 concentration polarization control, 15863
 methods to retard compaction of cellulose acetate membranes, study, 15861
 reverse osmosis plants, pumping and energy recovery systems, 15855
 salt water, by freezing method, USSR study, 15928
 Desert National Wildlife Range, general information, 16443

Desha County, Ark., community profile, 15557
 Design manual DM series, 16291
 Designs (aircraft):
 crash survival design guide, 15058
 Designs (architectural), *see* Architecture.
 Designs (industrial):
 trussed rafters, criteria, 15827
 Des Lacs National Wildlife Refuge, mammals, list, 16450
 Desolation Wilderness in California, designate as wilderness area, proposal, reports, 15258-15275
 De Soto National Wildlife Refuge, general information, 16452
 Desoxyribonucleic acid, intraphage DNA, investigation of structure with use of dyes, USSR study, 15937
 Detectors, Pegasus and Explorer XXIII detector panels, calibration, 16204
 Deterioration, pulp chips, control with kraft green liquor, 15764
 Detroit, Mich., Neighborhood Youth Corps, program, effectiveness and administrative efficiency, GAO report, 15780
 Development, *see* Underdeveloped areas.
 Development assistance, *see* Foreign aid.
 Development of inverter testing of high-temperature cesium-vapor thyatrons, 16142
 DeWitt, D. P., comprehensive program for compilation and analysis of thermal radiative properties data, 16138
 DI, *see* Disability insurance.
 Diagnosis, morphology of diagnostic stages of intestinal parasites of man, 16355
 Dials, dials and pointers, Federal item identification guide, 15506.
 Dialysis, hydrodynamic studies for electro-dialysis, 15856
 Diamond, J. J., bibliography on high temperature chemistry and physics of materials, 16226
 Dictionaries, naval fighting ships, 16304
 Dielectrics, clay suspensions, properties in frequency range from 50 HZ to 20 KHZ, 15650
 Dies (metal working):
 zinc-base die cast scrap, refining, using low-cost fluxes, 16106
 Diet, effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058
 Differential thresholds for motion in periphery, 16145
 Differentials in health characteristics by color, 16375
 Diffraction, cylindrical hydroacoustical wave at junction of 2 semi-infinite plates, USSR study, 15952
 Digests, *see* Index digests—also names of departments, etc., issuing digests—also subjects.
 Digital computers, *see* Electronic computers.
 Dingman, S. Lawrence, effects of thermal pollution on river ice conditions, 15649
 Diodes, microwave backward diodes in indium arsenide, fabrication and characteristics, 16164
 see also Avalanche diodes.
 Directorates:
 membership committees, President's Committee on Employment of the Handicapped, 16333
 military assistance program address directory, 15531
 Missouri Basin Inter-Agency Committee, 1970 fiscal year, 16111
 plastics, knowledgeable Government personnel, 15532
 post offices, 16326
 post offices, 1969-70, national ZIP code directory, 16330

Directories- Continued
 public elementary and secondary schools in large school districts, with enrollment and instructional staff, by race, fall 1967, 15629
 telephone, centrex telephone directory, State Department, International Development Agency, Arms Control and Disarmament Agency, 16462
 U.S. facilities providing cleft lip and cleft palate services, National Institute of Dental Research, 16260
 Disability evaluation, types of injuries, incidence and associated disability, July 1965-June 1967, U.S., 16376
 Disability insurance:
 DI benefits in current payment status, 1968, present value, 16411
 social security, benefit statistics, monthly, 16414
 see also Old age, survivors, and disability insurance.
 Disabled:
 children with specific learning disabilities act of 1969, report, 15270
 types of injuries, incidence and associated disability, July 1965-June 1967, U.S., 16376
 see also Veterans.
 Disadvantaged children, *see* Children.
 Disadvantaged youth, *see* Youth.
 Disasters:
 California disaster relief act of 1969, report, 15279
 disaster relief activities, HUD handbook, 15829
 educational assistance in major disaster areas, elementary and secondary education act amendments of 1969, hearings, 15473
 emergency health series, 16341
 emergency health services digest, 16342
 floods—
 California, central and southern, 15799
 Little Calumet River and tributaries, Ill. and Ind., 15658
 floods, how to avoid damage—
 Canyon City and John Day, Oreg., 15659
 Westfield, Mass., 15660
 Wolf River, Lake Poygan to Shawano, Wis., 15654
 natural, what Department of Agriculture can do, 14999
 see also Relief work.
 Disbursements, House of Representatives, detailed statement, 15319
 Discharge, coefficients for thick plate orifices with approach flow perpendicular and inclined to orifice axis, 16199
 Discrimination, *see* Race problems.
 Discrimination in employment:
 equal employment opportunity, developing human resources, AEC contractors' affirmative action programs, 15079
 HUD construction contractors and 6 craft unions, investigation in Chicago (statement), 15843
 toward job equality for women, 15677
 Discrimination in housing, your housing rights, live where you want to live, 15835
 Diseases, *see* names or classes of diseases.
 Dismemberment insurance coverage under servicemen's group life insurance, 15381
 Dispersion, strengthened nickel produced from ultrafine comminuted powders, 16172
 Distillation:
 destructive, of scrap tires, 16102
 saline water, scale control, basic studies, 15858
 Distribution (economics):
 distributive education, post secondary, suggested guide for administrators and teachers, 15638

INDEX

- District of Columbia :
 adoption of Interstate compact on juveniles, report, 15383
 continuous air monitoring projects, National Air Surveillance Networks, 1965, data tabulations and summaries, 16358, 16361
 courts, reorganize, report, 15384
 current local civil service examinations covering metropolitan area, 15138
 election act, amend, report, 15111
 food chain selling practices, economic report, 15739
 Georgetown residential architecture, 16273
 National Memorial Stadium Commission, abolish, report, 15410
 nonvoting delegate to House of Representatives, establish, report, 15411
 property, convey to Washington International School, Inc., law, 15211
 psychology, practice of, regulate, hearing, 15431
 revenue act of 1969—
 hearings, 15430
 report, 15407
 revenues, providing additional—
 hearings, 15430
 report, 15407
 unemployment compensation act, exempt public international organizations, report, 15382
- District of Columbia Commission on Government, establish, report, 15412
- District of Columbia Committee, Senate :
 hearings, 15430-431
 reports, 15382-384, 15407, 15410-412
- Divorce :
 statistical studies, bibliography, 16352
 statistics analysis, 16378
- Dixon, Jay D., structural design data for unreinforced concrete tunnel linings, 16097
- DNA, *see* Deoxyribonucleic acid.
- DoD, *see* Defense Department.
- "... Doing what is right to do," 15893
- Dolphins :
 Delphinus delphis, echolocation, USSR study, 15949
 some distinctions of higher nervous activity in Black Sea dolphin (*Tursiops truncatus*), USSR study, 15927
- Dominican Republic :
 agricultural commodities, agreement, 16480
 economic trends and their implications for United States, 15884
- Donnelly, Warren H., science, technology, and public policy during 90th Congress, 1st and 2d sessions, 15330
- Doors, and covers, access, Federal item identification guide, 15503
- Dorsal column system of spinal cord, its anatomy, physiology, phylogeny and sensory function, updated review, 16253
- Douglas fir, *see* Fir.
- Doves, *see* Mourning doves.
- Doyle, D. V., evaluating Appalachian woods for highway posts, 15765
- Drag (aerodynamics) :
 bodies of revolution having minimum total drag in hypersonic flow, 16184
 flow-field and drag characteristics of several boundary-layer tripping elements in hypersonic flow, 16192
- Drama, and works prepared for oral delivery, catalog of copyright entries, 15486
- Drew County, Ark., community profile, 15558
- Drilling, drillability studies, laboratory percussive drilling, 16100
- Drivers, *see* Motor vehicle operators.
- Drugs :
 abuse, education workshop for teachers, how to plan, 16347
 don't guess about drugs when you can have the facts, current information-education materials available, 16340
 radioprotective, 2-(1-decylamino) ethanethiosulfuric acid, pharmacodynamics, 15020
- Drugs—Continued
 stored for national emergencies, transfer to another Federal agency before shelf life expires, report, 15402
see also names of drugs.
- Drydocks, facilities, Navy design manual, 16291
- DSA, *see* Defense Supply Agency.
- Duane, David B., radioisotope sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
- Ducks, stamp data, information for collectors and conservationists, 16442
see also Mallards—Wood ducks.
- Durham, N.C., 519 East Main Street tribute to partnership and involvement (address), 15826
- Durum wheat, *see* Wheat.
- Duties, *see* Tariff—*also* names or classes of articles imported.
- Dyes and dying, investigation of structure of intraphase DNA with use of dyes, USSR study, 15937
- Dynamics :
 complex dynamical systems with constraints, new matrix theorem and its application for establishing coordinates, 16206
 dynamic response of flexible rotor blade to concentrated force moving from tip to root, 16167
 flight dynamics of turbojet aircraft, 16209
 rigid rotor dynamics, 16125
 standard method for 1-inch dynamic tear test, 16314
 surface vehicle dynamics, experimental verification, 16126

E

- E.S.S.A., *see* Environmental Science Services Administration.
- Earphones, *see* Headsets.
- Earth, electric properties, at EMP simulator site, Fort Huachuca, Ariz., 15796
- Earthquakes, damage due to Niigata, Japan, earthquake, report, 15070
- Earthwork and structures, foundations of structures in cold regions, 15040
- East (Far East) :
 agricultural data book, 15623
- Eastern Europe, *see* Europe.
- Eastern Utilization Research and Development Division, publications and patents, list, 14980
- ECA, *see* United Nations Economic Commission for Africa.
- Echolocation (physiology) :
 in common dolphin (*Delphinus delphis*), USSR study, 15949
 motion of bats toward plane targets and nature of changes of echolocative signals in process of target selection and recognition, 15902
- Ecology, autecological characteristics of elk sedge, 15760
- Economic assistance, *see* Foreign aid.
- Economic Commission for Africa, *see* United Nations Economic Commission for Africa.
- Economic conditions :
 assessing the economic scene, 15994
 foreign economic trends and their implications for United States, ET series, 15876-887
 influence on children, research programs, studies in progress, 15124
 USSR, structure of national economy, study, 15922
see also names of countries, States, etc.
- Economic development :
 area overall economic development programs, guide, 15535
 districts, etc., map, 15533
- Economic Development Administration, job creating programs, district development, 15534

Economic Opportunity Office:
community action programs—
CAP mission guide, participation of the poor in community decision-making process, 15336
service activities, variations in cost and performance, Health, Education, and Welfare Dept., GAO review, 15788
health services programs, report, 15296
Kilmer Job Corps Center for Men, Edison, N.J., effectiveness and administration, GAO report, 15779
pamphlets, 15616

Economic poisons, see Pesticides.

Economic policy:
economic opportunity act, continuation of programs, etc., hearings, appendix, 15315
financial guide for administration of planning and action grants awarded under title I, Omnibus crime control and safe streets act of 1968, 15992
see also Inflation (finance).

Economic Research Service:
agricultural economic reports, 15617-618
ERS-foreign series, 15623
ERS series, 15622
foreign agricultural economic reports 15624

Economics:
aspects of aging, toward a full share in abundance, survey, hearings, 15414
print additional copies, report, 15389
do you know your economic ABC's? Uncle Sam counts, story of census '70, 15164
economic opportunity amendments of 1969, hearings, appendix, 15315
economics of the tax bill (remarks), 16511

EDA, see Economic Development Administration.

Eddy currents, formation and boundary layer in fish locomotion, USSR study, 15931

Education:
children, research programs, studies in progress, 15124
children with specific learning disabilities act of 1969, report, 15270
community service and continuing education program of Education Office, 14972
continuing education for R & D careers, exploratory study, 16280
drug abuse education workshop for teachers, how to plan, 16347
education in action (remarks), 15630
educational television and radio broadcasting facilities, construction, Federal grants, extend, report, 15259
emergency student loan act of 1969, report, 15249
focused, universities and environmental quality, commitment to problem, report, 16399
Georgia Superintendent for Bureau of Refugees, Freedmen, and Abandoned Lands, records 1876-1870, pamphlet to accompany microcopy, 16221
gifted and talented children educational assistance act, report, 15269
handicapped children, preparation of professional personnel, manual, 15639
health occupations, manpower supply and educational statistics, health manpower source book, 16256
more education, more opportunity, 15636
opportunities and financial assistance for nursing students, 15041
program of support for unsolicited basic research in education, 15640
teachers, opportunities abroad, exchange, 15642
trust funds for scholarships, employer contributions, report, 15283

Education—Continued
veterans, education and training program, increase benefits, amend U.S. Code, hearings, 15472
see also Colleges and universities—Elementary education—Professional education—Secondary education—Technical education—Vocational education.

Education and Labor Committee, House:
hearings, 15211-315
reports, 15232, 15249, 15269-270
Education by television, *see* Television.

Education Office:
community service and continuing education program, 14972
sponsors programs that can assist you!, 15636

Educational institutions, see Colleges and universities.

Effluents, secondary, from wastewater treatment plants, ozone treatment, 15745

Eggers, Paul W., statement, Oct. 1, 1969, 16517

Eggs:
commercial egg-producing farms, costs and returns, New Jersey, 15619
egg pasteurization manual, 14975
Eilersten, Donald E., phosphate rock, 16094
Eisenhower, Dwight D.:
6-cent commemorative postage stamp—dedication ceremonies (remarks), 16331
poster, 16325
see also President of United States.

Eisenhower National Historic Site, development, reports, 15264, 15366

Elderly people, see Aged.

Elections:
District of Columbia act, amend, report, 15411
President and Vice President, by direct popular vote, amend U.S. Constitution, proposal, reports, 15227, 15229

Electric apparatus and appliances:
electrical equipment of certain branches of industry, USSR study, 15977
holders, retainers, and shields for electrical and electronic equipment, Federal item identification guide, 15504

Electric arc, helium arc, spectroscopic study, 16162

Electric batteries, nonaqueous systems for secondary battery applications, electrochemical characterization, 16141

Electric conductivity, measuring electrical conductivity of air in free atmosphere from aircraft, USSR study, 15975

Electric contacts, contact sets, Federal item identification guide, 15502

Electric currents:
high-current self-compressed discharge in radiative thermal conductivity, theory of equilibrium and stability, 15062
problem of current limits in accelerators and stability of nonuniform electron beams, 15067

Electric discharges, high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stabilization, 15062

Electric equipment, see Electric apparatus and appliances.

Electric fields, quasi-steady electric fields and plasma oscillations in Stellarator L-1, studies, 15066

Electric fishing devices, lightweight backpack high-voltage electrofishing unit, 16456

Electric generators, MHD generator cathodes emitting in spot mode, analytical and experimental studies, 16169

Electric power, see Electricity.

Electric power distribution, see Electricity.

INDEX

- Electric power plants:
 Logan project, Logan River, Utah, development owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718
 MHD for central station power generation, plan for action, 16397
 Oneida project, Bear River, Idaho, development, owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718
 Electric pulses, *see* Pulses.
 Electric railroads, transport statistics, 15895
 Electric relays, selection and application, military standard, 15529
 Electric resistors, thermal, Federal item identification guide, 15512
 Electric switchgear, switch, nonrotary, Federal item identification guide, 15519
 Electric transformers, transformer of closely spaced pulsed waveforms having nonzero average value, 16200
 Electric utilities, private and Federal projects, 1965-1967, sales of firm electric power for resale, 15719
 Electric waves, electromagnetic and plasma waves, induced Compton effect, under astrophysical conditions, 15063
 Electricity:
 electric power—
 producing, environmental effects, selected materials, 15215
 supply system, receivers, etc., USSR study, 15977
 supply systems, USSR study, 15972
 electrical properties of earth, EMP simulator site, Fort Huachuca, Ariz., 15796
 national electric rate books 15721-15724
 sales of firm electric power for resale, 1965-1967, by private electric utilities by Federal projects, 15719
 TVA, power, 1969 annual report, 16499
 see also Power.
 Electrochemistry, electrochemical characterization of nonaqueous systems for secondary battery application, 16141
 Electrodialysis, *see* Dialysis.
 Electromagnetic waves, *see* Electric waves.
 Electromagnetism, electrical properties of earth at EMP [Electromagnetic Pulse] Simulator Site, Fort Huachuca, Ariz., 15796
 Electron beams, nonuniform electron beams, stability and problem of current limits in accelerators, 15067
 Electron bombardment, thruster operated with cusped magnetic field, 16188
 Electronic computers:
 device for producing both hard copy alphanumeric listings and digital data plots, 16201
 microcontrol and diagnosis of malfunctions, 15978
 see also Cybernetics.
 Electronic data processing systems:
 ADP systems, multicommand, development and maintenance, Army pamphlet, 15046
 automatic data processing systems and procedures, PCAM (punched card accounting machine) utilization, 16238
 electronic data processing equipment for census '70, 15118
 flight, system shakedown tests, aircraft, NAS en route stage A model 1, functional package A, 15693
 systems approach to recovering gold resources in Jefferson County, Mont., 16104
 Electronic equipment:
 census '70, electronic data processing equipment, 15118
 fire protection, 15791
 Electronic equipment—Con.
 holders, retainers, and shields for electrical and electronic equipment, Federal item identification guide, 15504
 radio engineering microelectronic equipment, components for functional synthesis, USSR study, 15940
 Electronic switches, switch, rotary, Federal item identification guide, 15520
 Electronics:
 radio engineering microelectronic equipment, components for function synthesis, USSR study, 15940
 Soviet electronic industry, Japanese survey, 15925
 structure of atoms, and Mendeleev's periodic law, USSR study, 15960
 USSR Academy experiments with electronic techniques, 15971
 see also Electronic equipment.
 Electrons:
 method of external injection of electrons into closed toroidal systems, 15072
 MHD generator cathodes emitting in spot mode, analytical and experimental studies, 16169
 Electroplating, Watts nickel electroplating bath, meta-benzenedisulfonic acid as stress-reducing additive, evaluation, 16152
 Elementary education:
 elementary and secondary construction act of 1969, hearings, 15314
 elementary and secondary education act—amend, hearings, 15473
 title I, statistical report, 15643
 Elements, simulated circular-arc elements on conical surfaces, computer program for composing compressor blading from, 16183
 Ellipsometers, measurements, FORTRAN program for analysis, errata, 16227
 Embankments, slopes and embankment foundations, stability analysis electronic computer program for, 16382
 Emergencies, *see* Disasters.
 Emergency services, medical services, report, 16243
 Emergency Transportation Office, OET training conference, National Headquarters element, proceedings, 16505
 Emissions:
 emissivity coatings for low-temperature space radiators, 16136
 field emission energy distributions, molecular vibration spectra, 16174.
 high-emittance coatings, testing, 16132
 MHD generate cathodes emitting in spot mode, analytical and experimental studies, 16169
 Employees, *see* names of departments, etc., where employed.
 Employers, contributions to educational trust funds, etc., report, 15283
 Employers' liability and workmen's compensation:
 Federal employees' compensation act, number, duration, etc., of injuries to civilian employees, 15645
 mining industry employees, coverage and benefits under State laws, encourage improvement, hearings, 15311
 Employment:
 changing patterns in New York City, facts, 16028
 employ/re-employ veterans, time to serve them, 16005
 Federal—
 accent on youth, disadvantaged, etc., 15148
 physically handicapped, mentally restored, mentally retarded, rehabilitated offender selective placement, handbook, 15142
 job creating programs, EDA economic development districts, 15534
 job program, assault on hard-core jobless problems, 15997
 New York City, facts, 16029

- Employment—Continued
 now, about that job, A B C's for veterans, 16525
 opportunities in Public Roads Bureau, 16383
 supervising the hard core, management guidelines, 16004
 widowed mothers, facts, 16417
 women in Federal Government, study, 15149
see also Work.
- Employment security activities, *see* Unemployment insurance.
- Employment taxes, internal revenue bulletin, cumulative index-digest supplement system, supplement, 15867
- Enamel, *see* Teeth.
- Endodontics, *see* Dentistry.
- Energy, *see* Atomic energy—Force and energy—Radiant energy.
- Engineering:
 cold regions science and engineering, 15040, 15652
 defense communications system, installation standards manual, 15491
 sciences, Air Force research objectives, 1969, OAR, 15016
 technical aids, opportunities, examination announcement, 15145
- Engineering psychology, effects, technical progress examined, USSR conference report, 15991
- Engineers, continuing education for R & D careers, exploratory study, 16280
see also Highway engineers.
- Engineers Corps, Army, water resources functions and programs, 15664
- Engines (aircraft):
 twin-jet afterbody model, effect of jet velocity and axial location of nozzle exit on performance, 16161
- English language, English and Government, Federal textbook on citizenship, 15846
- Enrollment, *see* Schools.
- Environment:
 body armor in hot humid environment, studies in heat acclimatized men, 16057
 cold regions science and engineering, 15652
 data for XB-70 airplane cockpit, summary, 16189
 environmental effects of producing electric power, selected materials, 15215
 environmental planning (remarks), 15851
 environmental problems at Everglades National Park, hearings, 15461
 environmental sciences, Air Force research objectives, 1969, OAR, 15016
 humane society or environmental chaos (remarks), 16348
 Mesa Verde, Colo., Wetherill Mesa studies, 16267
 meteoroid environments determined from photographic meteor data, 16205
 national environmental policy act of 1969, report, 15276
 quality environment in Tennessee Valley, 16501
 universities and environmental quality, commitment to problem focused education, report, 16399
- Environmental Quality Council, create, report, 15276
- Environmental Science Services Administration:
 ESSA Research Flight Facility, facilities for airborne atmospheric research, 15676
 monograph, 15672
 technical memorandums, 15673
 technical reports, 15674-675
- Epilepsy, abstracts, with indexes, 1947-67, list, 16254
- Equal employment opportunity, *see* Discrimination in employment.
- Equations:
 buckling of shells of revolution with various wall constructions, errata, 16120
 estimation of variance by recursive equation, 16198
 isothermal compressible flow across rotating sealing dam, computer program, 16155
 Lambert's theorem, unified form, 16158
 modified method of integral relations approach to blunt-body equilibrium air flow field, including comparisons with inverse solutions, 16182
 real-gas effects in critical flow through nozzles and thermodynamic properties of nitrogen and helium, errata, 16149
 toward theory of fuzzy systems, 16139
- Equations of motion:
 new matrix theorem and its application for establishing independent coordinates for complex dynamical systems with constraints, 16206
 rigid rotor dynamics, 16125
 unified treatment of lunar theory and artificial satellite theory, 16193
- Equilibrium:
 and stability, theory of high-current self compressed discharge in optically dense plasma with radiative thermal conductivity, 15062
 blunt-body equilibrium air flow field, modified method of integral relations approach, including comparisons with inverse solutions, 16182
 magnetic field steady-state condition, determination of plasma parameters produced by super high-frequency power, 15064
- Erdman, James A., environment of Mesa Verde, Colo., Wetherill Mesa studies, 16267
- ERL, *see* ESSA Research Laboratories.
- Erosion, *see* Beach erosion.
- ERS, *see* Economic Research Service.
- Eslyn, Wallace E., new method for appraising decay capabilities of micro-organisms from wood chip piles, 15762
- ESSA, *see* Environmental Science Services Administration.
- ESSA Research Laboratories:
 ESSA technical report—
 ERL-ITS series, 15674-675
 ERL-RFF series, 15674
- Estate tax, *see* Inheritance and transfer tax.
- Estates, deceased persons, double taxation, Netherlands, text, etc., 15354
- Estuaries:
 clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, 15740
 cradles or graves, better water for America, 15741
- Eulogies, *see* Memorial services.
- Europe:
 Eastern, foreign relations of U.S., diplomatic papers—
 departmental edition, 16466
 document edition, 15216
 NATO and defense of Europe—
 discussion guide, 16471
 United States foreign policy issues, 16470
 west coast, lights and fog signals, list, change, 16303
- European War, 1914-18, Naval Overseas Transportation Service in World War I, history, 16305
- Evans, J. Albert, commercial cotton farms, costs and returns, Mississippi Delta, 15620
- Evaporation, of volatile organic liquids, effects of adsorbed monomolecular films, 16317

INDEX

Everglades National Park :
 Taylor Slough, effects of mineralized ar-
 tesian water on fresh-water biota, 15795
 water supply, environmental, and jet air-
 port problems, hearings, 15461
 Everybody's problem, movement of money, 15726
 Examinations, *see* Civil service.
 Excise taxes, IRS looseleaf regulations sys-
 tem, reprint, 15870
 Executive Office of the President, appropri-
 ations, 1970, report, 15281
 Executives, National Highway Safety Bureau
 contractors report, executive summaries, 16239
 Expenditures, *see* Finance—*also* subject for
 which expenditures are made.
 Experiments and experimentation, absolute
 radiometers for use in ballistic-range and
 shock-tube experiments, 16157
 Explorer, *see* Satellites.
 Export-Import Bank, appropriations, 1970,
 hearings, 15299.
 Export trade, *see* Commerce.
 Exporters, export documentation process
 (remarks), 15174
 Exports :
 control act of 1949, extend and amend—
 hearings, 15310
 law, 15207
 report, 15356
 expansion and regulation act, continue
 authority, report, 15356
 export promotion (address), 15159
 exporting to United States, 15490
 foreign trade markets situation (remarks),
 16518
 U.S. agriculture in changing world (ad-
 dress), 14982
see also Commerce—Tariff—*also* names or
 classes of articles exported.
 Extension work, your career as extension
 agent, 14998
 Extraction (chemistry) :
 copper from oxides using iron and steel
 scrap, principles and application to pure
 systems, 16101

F

F.A.A., *see* Federal Aviation Administration.
 F.C.C., *see* Federal Communications Commis-
 sion.
 FAA, *see* Federal Aviation Administration.
 Fabrication, *see* names of materials, etc.,
 fabricated.
 Face, *see* Head.
 Facilities handbook series, 16327
 Fair use of copyrighted works, 15489
 Fairfield, Calif.
 streams in vicinity, engineers report—
 departmental edition, 15663
 document edition, 15225
 Fall armyworms, *see* Armyworms.
 Fallout, *see* Radioactivity.
 Falls, preventing injury from falls and fall-
 ing objects, occupational safety aid, 16010
 Families :
 household and family characteristics, cur-
 rent population reports, 15115
 income, 1967, supplementary report, 15117
 new one-family homes sold and for sale,
 1963-1967, 15119
 research relating to children, studies in
 progress, 15124
 States can help many children and fam-
 ilies, 15122
 Family planning, *see* Birth control.
 Fausch, James F., remarks, Oct. 2, 1969,
 15712
 Far East, *see* East (Far East).
 Farm implements and machinery, moving
 equipment, make sure it's clean first!
 plant pests often hitchhike in dirt, 15003
 Farm income, *see* Income.
 Farm machinery, *see* Mechanization.

Farmers :
 and the consumer, 14990
 Future Farmers of America and civil de-
 fense programs, 15131
 Farmers' bulletin, 14991
 Farms :
 costs and returns, 15619-621
 commercial broiler farms, Georgia, 15621
 commercial cotton farms, Mississippi
 Delta, 15620
 commercial egg-producing farms, New Jer-
 sey, 15619
 FAS, *see* Foreign Agricultural Service.
 Faulkner County, Ark., community profile,
 15559
 FCC, *see* Federal Communications Commis-
 sion.
 FCR series, 15619-621
 Federal agencies, *see* Government offices.
 Federal aid, *see* Grants-in-aid.
 Federal assistance, *see* Grants-in-aid.
 Federal Aviation Administration :
 airworthiness directives—
 large aircraft, summary, supplement,
 15695
 small aircraft, summary, 15696
 contractions used in air traffic control,
 etc., handbook, change, 15025
 Federal aviation regulations, 15684-687
 handbook series, 15689-690
 recurring reports, catalog, 15682
 Federal buildings, *see* Public buildings.
 Federal civil service, *see* Civil service.
 Federal Coal Mine Safety Board of Review,
 appropriations, 1970, report, 15398
 Federal Communications Commission, rules
 and regulations, 15697
 Federal credit unions :
 act, amend, hearing, 15420
 rules and regulations, 15700
 Federal employees, *see* Government officials
 and employees.
 Federal Employees Board of Arbitration,
 establish, report, 15265
 Federal employees' compensation act, *see*
 Employers' liability and workmen's com-
 pensation.
 Federal Employees Salary Commission, estab-
 lish, report, 15265
 Federal employment, *see* Employment.
 Federal expenditures, *see* Finance.
 Federal Field Committee for Development
 Planning in Alaska, appropriations, 1970,
 report, 15398
 Federal Fire Council, recommended prac-
 tices series, 15791
 Federal Government, *see* Government.
 Federal Highway Administration :
 management career opportunities for ad-
 ministration majors, 15702
 professional challenge and growth for ac-
 counting majors, 15703
 Federal Home Loan Bank System, combined
 financial statements, 1968, members of
 System, 15705
 Federal home loan banks, financial state-
 ments, 1968, GAO examination, 15219
 Federal Housing Administration :
 financial statements, 1968, GAO exami-
 nation, 15223
 loans for financing purchase of mobile
 homes, hearings, 15421
 mortgage insurance program—
 extend, reports, 15297 ; 15371
 hazardous geologic areas, 15244
 technical standards training guides, 15709
 Federal item identification guides :
 abrasives, 15496
 bearing, plain, 15497
 boxes and crates, change, 15498
 brackets, 15499
 caps and plugs, 15500
 coats and coat-like garments, 15501
 contact sets, 15502

Federal item identification guides—Con.
covers and doors, access, 15503
hose, tubing, and hose and tubing assemblies, change, 15505
knobs, dials, and pointers, change, 15506
lampholders, 15507
lift trucks, fork, platform and pallet, change, 15508
microphones and microphone elements, 15509
nails, staples, and tacks, change, 15510
pipe and tube metallic, change, 15511
resistor, thermal, 15512
rivets, rivet caps and collars, changes, 15513-514
shaft collars and hub clamps, 15515
special valves, 15516
switch, nonrotary, 15519
switch, rotary, 15520
terminal boards, change, 15521
valves, regulating, 15522
Federal jobs overseas, 15147
Federal Maritime Commission :
annual report, 15718
decisions, bound volume, 15711
policy (remarks), 15715
SP series, 15712-716
Federal planning, *see* Economic policy.
Federal Power Commission, S series, 15719
Federal program in population research, 16396
Federal property, *see* Public property.
Federal reserve system :
Federal reserve act, amend, report, 15376
foreign exchange operations, 15733
Federal Reserve System Board of Governors :
authority, rules regarding delegation, amendment, 15733
regulation series, 15729-731
Federal savings and loan associations, combined financial statements, 15705
Federal specifications, *see* Government supplies.
Federal standards, 15736
Federal supply catalog, *see* Government supplies.
Federal Trade Commission, advisory opinion digests, 15738
Federal Water Pollution Control Administration, appropriations, 1970, report, 15298
Federal work injury facts (series), 15645
Fees :
Immigration and Naturalization Service and United States marshals, need to revise fees for services provided, GAO report, 15785
shippers recovery of attorney's fees, hearing, 15429
Feldspar, minerals yearbook chapter, 16075
Fellowships :
National Institutes of Health—
postdoctoral research, 16262
predoctoral research, 16263
research, information, and eligibility criteria, 16349
Fertilizers, TVA fertilizer science for the Nation, 16502
Fescue, fescue-covered spoil banks, tree survival and growth on, 15757
FHA, *see* Federal Housing Administration.
Fiberboard boxes, *see* Boxes.
Fichter, W. B., stress concentration around broken filaments in filament-stiffened sheet, 16191
Fields, Roger A., evaluation of infrared heating simulation of Mach 4.63 flight on X-15 horizontal stabilizer, 16165
FIIG, *see* Federal item identification guides.
Fiji Islands, background notes, 16460
Filaments, stiffened sheet, stress concentration around broken filaments, 16191
Films (coatings) :
plastic, investigations for canal linings, 16392
Films (photography), *see* Motion pictures.

Finance :
civil service retirement financing and benefits, amend U.S. Code, report, 15359
Federal outlays, report of Federal Government's impact by State and county—
Kentucky, 15613
Mississippi, 15614
Nebraska, 15615
financial statements—
Federal home loan banks, GAO examination, 15219
Federal Housing Administration, GAO examination, 15223
savings and loan associations of Federal Home Loan Bank System, 15705
financing in Soviet public health, USSR study, 15932
forest fire control, cooperative program, financing, 15751
grants-in-aid and other financial assistance program administered by Health Services and Mental Health Administration, 16344
institutions of higher education, 1966-67, statistics, property, 15631
low-rent housing financing handbook, 15833
omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
see also Inflation (finance).
Finance Committee, Senate :
committee prints, 15434-448
hearings, 15432, 15449
reports, 15377-381, 15406
Financial assistance, *see* Grants-in-aid.
Financial institutions, *see* Banks and banking.
Financial statements, *see* Finance.
Financial statistics, *see* Finance.
Fine Arts Commission, appropriations, 1970, report, 15398
Fir, Douglas, field grown grafts, effect of graft type on 6 month scion survival, 15759
Fire protection, *see* Fires.
Fires :
Federal Fire Council recommended practices series, 15791
protection for essential electronic equipment, 15791
see also Forest fires.
Fish and fisheries :
Aral Sea asp *Aspius aspius ibloides*, biological data, USSR study, 15906
current fishery statistics, CFS series, 15182-183
effects of pesticides on sports and commercial fisheries, hearings, 15425
fish and wildlife coordination act, amend, report, 15276
fish locomotion, eddy formation and boundary layer, USSR study, 15931
fishery products, processed, 1967, annual summary, 15183
North Carolina landings, 15182
pollution caused fish kills, 15743
sanitary requirements for fish plants, military standard, 15530
school formation, hydrodynamic hypothesis, USSR study, 15974
special scientific reports, fisheries series, 15184
Fish scales, *see* Scales (fishes).
Fishery products, *see* Fish and fisheries.
Fishing gear, *see* Electric fishing devices.
Fishing vessels :
construction assistance, increase authorization, reports, 15230, 15251
U.S. fishing fleet improvement act, extend reports, 15230, 15251
Fisk, Allen L., Missouri Basin Inter-Agency Committee, minutes of 157th meeting, 16112

INDEX

- Flags, our flag, how to respect and display, 16522
- Flaps (aircraft):
trailing-edge flap of 75° swept delta wing at Mach 6 and angles of attack to 90° pressure and heat transfer, 16171
- Flash distillation, 250-MGD multistage flash distillation plant with 2-level brine flow, design and cost estimates, etc., 15853
- Flathead Indians, judgment funds, disposition, report, 15256
- Flaxseed, production and use, past trends and future prospects, 15622
- Fleet Marine Force manual FMFM series, 16041
- Fletcher, Arthur A., address, Sept. 20, 1969, 15996
- Flies, horse bots, how to control them, 14995
- Flight:
Army ROTC flight training, general information, 15036
dynamics of turbojet aircraft, 16209
instructors, certification, Federal aviation regulations, 15684
Mach 4.63 flight on X-15 horizontal stabilizer, evaluation of infrared heating simulation, 16165
- Flight training, *see* Flight.
- Flood, Dennis J., molecular vibration spectra from field emission energy distributions, 16174
- Floods:
California, central and southern, 15799
Cheoah River and tributary creeks in vicinity of Robbinsville, N.C., 16303
Dallas, Tex., northern part, Apr. 28, 1966, 15818
damage prevention, indexed bibliography, 16497
extent and frequency in Beden Brook basin, Somerset and Mercer Counties, N.J., 15797
flood control payments by U.S., adjustments, agreement with Canada, 15355
flood plain information—
John Day and Canyon City, Oreg., Canyon Creek, 15655
Little Calumet River & tributaries, Ill. and Ind., 15658
Perkiomen Creek from Green Lane Reservoir to Schuylkill River, extent and frequency of inundation, 15798
Westfield and Little Rivers, Westfield, Mass., 15656
Wolf River, Lake Poygan to Shawano, Wis., 15657
floods of 1965 in United States (series), 15816
floods of 1966 in United States (series), 15818
how to avoid damage—
Canyon City and John Day, Oreg., 15659
Westfield, Mass., 15660
Wolf River, Lake Poygan to Shawano, Wis., 15654
investigations of floods in Hawaii, progress report, 15800
national flood insurance act of 1968, amend and extend, reports, 15297, 15371
South Platte River basin, Colo., 15816
- Floors and flooring, flooring costs, 15771
- Flora, Donald E., soil survey, Schoharie County, N.Y., 16438
- Florissant Fossil Beds National Monument: establish—
law, 15208
report, 15238
- Flow:
axial-flow pump in liquid sodium, cavitation damage and effect of fluid temperature on performance, 16202
bed forms generated in laboratory under oscillatory flow, analytical and experimental study, 15648
- Flow—Continued
blunt-body equilibrium air flow field, modified method of integral relations approach, including comparisons with inverse solutions, 16182
- hypersonic—
bodies of revolution having minimum total drag, 16184
boundary layer tripping elements in flow-field and drag characteristics, 16192
- inhomogeneous hot plasma flow, instability, 15065
- injection of inviscid separated jet at oblique angle to moving stream, 16194
- isothermal, compressible, across rotating sealing dam, computer program, 16155
- real-gas effects in critical flow through nozzles and thermodynamic properties of nitrogen and helium, errata, 16149
- streamflow characteristics in western Dakota tributaries, Missouri River basin, 16113
- supersonic, second-order wave structure, 16144
- thick plate orifices with approach flow perpendicular and inclined to orifice axis, discharge coefficients, 16199
- Flue-cured tobacco, *see* Tobacco.
- Fluid mechanics, *see* Hydromechanics.
- Fluids:
non-Newtonian gelled fluids as shock-and vibration-isolation medium, feasibility study, 15055
temperature and cavitation damage, effect on performance of axial-flow pump in liquid sodium, 16202
- Fluke, G. A., new design concept for reverse osmosis membrane cells, 15854
- Flux, low-cost fluxes, use in refining zinc-base die-cast scrap, 16106
- Flying clubs, air travel clubs using large airplanes, certification and operations, Federal aviation regulations, 15686
- Fog, warm, properties and modification concepts, NASA research, symposium proceedings, 16148
- Fog signals:
Naval Oceanographic Office list—
Europe and Africa, west coasts, etc., change, 16303
Greenland, North and South America, east coast, etc., 16301
Pacific Ocean, western, etc., 16302
- Follow through's nutrition program, 15632
- Fomes annosus, use of soil fumigants to control spread, 15770
- Food:
food chain selling practices in District of Columbia and San Francisco, economic report, 15739
food gap, extent of poverty and malnutrition in United States, 15477
good foods coloring book, Spanish edition, 15001
human needs, national nutrition survey, hearings, 15478
industry, unit-load explosion, 15768
standards for Nation's food supply as CPEHS sees it (address), 16337
see also Diet.
- Food stamps, welfare reform and food stamps, hearings, 15478
- Footwear, *see* Boots and shoes.
- Force and energy:
concentrated force moving from tip to root, of flexible rotor blade, dynamic response, 16167
high-frequency energy near lower hybrid frequency, plasma absorption, 15068
ion energy loss in vapor-deposited materials, evaluation of technique for measuring, 16179
pumping and energy recovery systems for reverse osmosis desalination plants, 15855
see also Power.

- Foreign affairs, *see* International relations.
Foreign Affairs Committee, House:
 hearings, 15316
 reports, 15250, 15272-273
Foreign Agricultural Service, miscellaneous,
 FAS-31 series, 15746-748
Foreign agricultural trade, *see* Agricultural
 commodities.
Foreign agriculture, *see* Agriculture.
Foreign aid:
 challenge of development, 15892
 economic assistance funds improperly used
 to finance vehicles for defense require-
 ments, International Development
 Agency, GAO report, 15778
 foreign aid and U.S. national interests,
 (statement), 16465
 foreign assistance act of 1961, amend.,
 hearings, 15316, 15452
 foreign assistance act of 1969, hearings,
 15316, 15452
 foreign assistance appropriations, 1970,
 hearings, 15299
 programs, " . . . doing what is right to
 do," 15893
Foreign assistance, *see* Foreign aid—Mili-
 tary aid.
Foreign countries:
 background notes, 16459-461
 Federal jobs overseas, 15147
 foreign economic trends and their im-
 plications for United States, ET series,
 15876-887
 governments, recognition by United States,
 expressing sense of Senate, report,
 15358
 ocean space, basic principles governing
 activities of nations, place before United
 Nations Committee on Peaceful Uses of
 the Seabed and Ocean Floor, expressing
 sense of Senate, hearings, 15450
 plant quarantine import requirements,
 logs and lumber, 14977
 transition from school to work in selected
 countries, 16030
Foreign exchange, Treasury & Foreign
 Reserve operations, 15733
Foreign policy, *see* International relations.
Foreign relations, *see* International relations.
Foreign Relations Committee, Senate:
 hearings, 15450, 15451-452, 15454
 reports, 15358, 15393
Foreign trade, *see* Commerce—also names
 or classes of commodities.
Forest fires, cooperative control program
 financing Federal, State, and private
 funds, 15751
Forest management, form recovery by under-
 story sugar maple under uneven-aged
 management 15756
Forest planting, Penny Pines Cooperative
 Reforestation Program, progress report,
 15755
Forest rangers, in your service, the work of
 Uncle Sam's forest rangers, 14988
Forest Service:
 appropriations, 1970, report, 15398
 California region, progress report, 15750
 research notes, 15756-760
 research papers, 15761-775
 resource bulletins, 15776
Forests and forestry:
 cooperative State-Federal research, 14989
 forest inventory statistics, Jackson
 County unit, western North Carolina,
 16498
 forestry bulletin, Tennessee Valley Au-
 thority, 16498
 forestry opportunities under 3 invest-
 ment criteria, computer program for
 evaluating, 15774
 forestry research progress, McIntire-
 Stennis cooperative forestry research
 program, annual report, 15484
 insect population dynamics, 15772
 research notes, 15756-760
 research papers, 15761-775
Forests and forestry—Continued
 resource bulletins, 15776
 Tennessee Valley Authority publications,
 list, 16500
 woodlands in southern Coastal Plain and
 Blackbelt areas of Arkansas, Louisiana,
 Oklahoma, and Texas, with average
 rainfall of 25 to 30 inches during
 frost-free period, 16440
 see also National forests.
Fork lift trucks, *see* Motortrucks.
Forms, blanks, etc., management, records
 management handbook, 16222
Fort Huachuca, Ariz., Electromagnetic
 Pulse Simulator Site, electric properties
 of earth, 15796
Fort Melleny National Monument and
 Historic Shrine, master plan, 16277
FORTAN, *see* Computer programs/pro-
 graming.
Fossils, Girty's invertebrate fossils from
 Fayetteville shale (Mississippian) of
 Arkansas and Oklahoma, revision, 15803
Fouling organisms, marine biofouling at
 Penobscot Bay, Maine, and Placentia
 Sound, Newfoundland, 1960-68, 16293
Foundations (construction):
 foundations of structures in cold regions,
 15040
 slopes and embankment foundations,
 stability analysis, electronic computer
 program, 16382
Fountain, James B., feasibility of shipping
 fresh apricots and prunes jumble packed
 in fiberboard boxes, 14997
FPC, *see* Federal Power Commission.
Fracture of metals:
 cryogenic properties of thin AISI 301 60-
 percent cold-reduced sheet at various
 angles to rolling direction, 16168
 standard method for 1-inch dynamic
 tear test, 16314
 Ti-6Al-4V titanium-alloy sheet, tensile
 and stress-rupture properties, effect of
 hot-salt stress-corrosion cracking,
 16170
Framingham, Mass., cardiovascular disease,
 study, 16255
Franco, John J., Webbers Falls Lock and
 Dam Arkansas River navigation project,
 hydraulic model investigation, 15668
Frank, Benis M., victory and occupation,
 history of Marine Corps in World War II,
 16042
Franklin, A. D., ARPA-NBS program of
 research on high temperature materials,
 16228
Franklin County, Ark., community profile,
 15560
Frasca, Albert, study to determine if cor-
 relation exists between metal fatigue life
 and capability of metal to absorb or re-
 tain inert gas, 15057
Freedmen's Bureau, *see* Refugees, Freed-
 men, and Abandoned Lands Bureau.
Freezing, salt water desalination by freezing
 method, USSR study, 15928
Freight:
 descriptions and suffixes, transportation
 and travel, Army regulation, 15034
 time series regression analysis of freight
 and passenger transport demand to
 1980, 16509
Freight forwarders, ocean freight forward-
 ing future (remarks), 15712
Frenchboro Harbor:
 engineers report—
 departmental edition, 15661
 document edition, 15352
Frequencies:
 cells, two analysis-of-variance programs
 for disproportionate frequencies, 16059
 dielectric properties of clay suspensions
 in frequency ranges from 50 HZ to 20
 KHz, 15650
 frequency method of range finding, USSR
 study, 15979

INDEX

- Frequencies—Continued
parametric interaction of superhigh frequency field with plasma, theory, 15071
plasma absorption of high-frequency energy near lower hybrid frequency, 15068
super-high-frequency power in magnetic field steady state condition, determination of plasma parameters produced, 15064
- Fresno, Calif., solid waste management, final report, systems study, 16373
- Friedman, Howard A., ESSA Research Flight Facility, facilities for airborne atmospheric research, 15676
- Front Range unit, *see* Missouri River Basin project.
- Fruit:
canned deciduous fruit industry of South Africa, 15747
processed, plants under USDA continuous inspection, list, 15481
- Fruits, *see* Fruit.
- Fuel, nuclear fuels, reprocessing, symposium, 15075
see also Ammonium perchlorate.
- Fuel oil, burner fuel oils, petroleum products survey, 16093
- Fuels, *see* Fuel.
- Fulton County, Ark., community profile, 15561
- Fumigants, soil fumigants to control spread of *Pomes annosus*, 15770
- Functions (mathematical), *see* Mathematics.
- Funds, *see* names of departments, etc., for which funds are used—also subjects for which funds are used.
- Fur seals, *see* Seals (animals).
- Future Farmers of America, civil defense programs, 15131
- G**
- Game and game birds, *see* names of birds.
- Game theory:
all-Union conference, 15907
model of culture as system of games, USSR study, 15987
- Gamma rays:
backscatter, analysis technique for direct measurement of density of the Martian atmosphere, 16180
production and transport, and civil defense shielding, special sessions, proceedings, 15074
- Garden Grove, Calif., area wage survey, 16017
- Gardens, home and garden bulletin, 14993
- Garland County, Ark., community profile, 15562
- Garments, *see* Clothing.
- Garrett, L. Bernard, modified method of integral relations approach to blunt-body equilibrium air flow field, including comparisons with inverse solutions, 16182
- Gas:
motion of single bubbles under low gravitational conditions, 16196
pyrolysis-gas flow through char layer during ablation, simulation, 16197
real-gas effects in critical flow through nozzles, and thermodynamic properties of nitrogen and helium, errata, 16149
see also Pipe lines.
- Gas chromatography, *see* Chromatography.
- Gas pipelines, *see* Pipe lines.
- Gases:
atmospheric, measurements of negative ion production, 16131
rare resonance lamps, 16230
see also Noble gases.
- Gates, Robert F., evaluation of United States Air Force portable airfield lighting system, 15694
- Gealy, Edgar J., mineral industry of Ghana, 16083
- Gears, certification regulations, 16009
- Geese, *see* Canada geese.
- Gems, *see* Precious stones.
- General Accounting Office:
appropriations, 1970, legislative, hearings, 15415
report, 15271
Assistant Comptroller General, nomination of Robert F. Keller, hearing, 15457
- General von Steuben Memorial Day, designate, report, 15385
- Generators, *see* names or types of generators.
- Genetics, chickens, estimates of heritabilities and of genetic and phenotypic correlations for traits, summary, 14986
- Geochemistry, geochemistry of water (series), 15814
- Geodesy, mathematical geodesy, 15672
- Geography and History, Pan American Institute of, *see* Pan American Institute of Geography and History.
- Geography and Map Division, Library of Congress, new location, 16036
- Geological Survey:
appropriations, 1970, report, 15398
bulletins, 15792-794
professional papers, 15802-807
water supply papers, 15814-818
- Geology:
contributions to economic geology (series), 15792-793
geology of Midway area, Hawaiian Islands (series), 15807
hazardous geologic areas, Federal involvement, report, 15244
Sandy Hook quadrangle, Monmouth County, N.J., 15794
shorter contributions to general geology (series), 15805
- Geomagnetism, *see* Terrestrial magnetism.
- George, Lawrence C., vapor pressure of metal halides, 16105
- George Washington Birthplace National Monument, general information, 16272
- George Washington University, Students For a Democratic Society, hearings, 15322
- Georgetown, D.C., *see* District of Columbia.
- Georgia:
broiler farms, commercial, costs and returns, 15621
education superintendent for Bureau of Refugees, Freedmen, and Abandoned Lands, records 1865-70, pamphlet to accompany microcopy, 16221
- Gerdell, Robert W., characteristics of cold regions, 15652
economic trends and their implications for United States, 15880
photographic products industry and market, 15085
- Gertler, Diane B., directory, public elementary and secondary schools in large school districts, with enrollment and instructional staff, by race, fall 1967, 15629
- Gettysburg, Pa., Eisenhower National Historic Site, development reports, 15264, 15366
- Ghana, mineral industry, minerals yearbook chapter, 16083
- Gibson, Andrew E., remarks Oct. 15, 1969, 16049
- Gift tax, *see* Inheritance and transfer tax.
- Gifted children, *see* Children.
- Gilliland, Whitney, remarks, Oct. 9, 1969, 15129
- Gun-stand research at Stoneville, Miss., 1956-66, 15007
- Giraytys, James, requirements statements for selected data acquisition equipment, 15673
- Girty, G. H., revision of Girty's invertebrate fossils from Fayetteville shale (Mississippian) of Arkansas and Oklahoma, 15803.

- Giunta, John L., conservative management of mandibular incisors with large area of bone involvement, 16062
- Glaucoma, screening in your health unit, 16343
- Godshall, W. D., acoustical absorption properties of wood-base panel materials, 15761
- Gold, resources, systems approach to recovering, Jefferson County, Mont., 16104
- Golden Eagle Program, *see* Operation Golden Eagle.
- Goldstein, Marvin E., injection of inviscid separated jet at oblique angle to moving stream, 16194
- Goodsell, Wylie D.:
commercial broiler farms, costs and returns, Georgia, 15621
commercial egg-producing farms, costs and returns, New Jersey, 15619
- Gordon, Mackenzie, Jr.,
revision of some of Girty's invertebrate fossils from Fayetteville shale (Mississippian) of Arkansas and Oklahoma, 15803
- Gordon, R., jr., rare gas resonance lamps, 16239
- Gordon, Tavia, serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease, 16255
- Government:
English and Government, Federal textbook on citizenship, 15846
Federal—
employment of women, study, 15149
housing and urban development programs, progress report, 15422
national goals and priorities analysis of allocation of budget resources as indicator, 16211
science activities centralization, subcommittee report, 15226
intervention in market mechanism of petroleum industry, economists' views, hearings, 15468
local governments, Federal grants, programs, study of major characteristics, 15456
science, technology, and public policy, government-science relationships during 90th Congress, 1st and 2nd sessions, 15330
scientific and technical communications, progress, 15699
United States foreign credits, 16512
- Government contracts:
Federal-aid airport program, labor requirements in contracts, 15691
incentive contracting guide, DOD and NASA guide, 15495
Manpower Administration, audit guide, 15995
procurement and contracting, report, 15266
- Government employees, *see* Government officials and employees.
- Government for District of Columbia Commission, *see* District of Columbia Commission on Government.
- Government life insurance, *see* Life insurance.
- Government offices:
accounting systems as of Dec. 31, 1968, progress and problems relating to improvement, GAO report, 15786
Federal career literature, guide, 15141
reductions in force, 15146
treatment of tax depreciation by regulatory agencies, tax reform hearings, summary of testimony, 15349
- Government officials and employees:
Federal career literature, guide, 15141
Federal employee facts, 15140
Federal employee health series, 16343
- Government officials and employees—Con.
injuries to civilian employees during 1968, reported under compensation act, 15645
reductions in force in Federal agencies, 15146
salary comparability act of 1969, implementation, report, 15265
trades and crafts, equipment operation and repair, at journeyman and junior levels, examination announcement, 15135
see also Civil service pensions.
- Government Operations Committee, House:
hearings, 15317-318
reports, 15244, 15296
- Government Operations Committee, Senate:
committee print, 15458
hearings, 15455, 15457, 15459-460
reports, 15400-405, 15408-409
- Government periodicals, *see* Periodicals.
- Government Printing Office:
appropriations, 1970, legislative—
hearings, 15415
report, 15271
- Government Procurement Commission, establish, reports, 15266, 15405
- Government property, *see* Public property.
- Government supplies:
Federal specifications, 15735
Federal standards, 15736
Federal supply catalog—
consolidated master cross reference list, 15523
GSA stock catalog, identification list, 15737
procurement and contracting, report, 15266
- Grafting (botany):
effect of graft type on 6-month scion survival of field-grown Douglas-fir grafts, 15759
- Grain, standards, official, United States, revised pages, 15483
- Grand Banks, region and Labrador Sea, 1966, oceanography, 15154
- Grant County, Ark., community profile, 15563
- Grants-in-aid:
aging projects, 14971-973
air pollution planning, guidelines, 16345
airport development program, hearings, 15323-324
airport planning and development program, hearings, 15337
and other financial assistance programs administered by Health Services and Mental Health Administration, 16344
California, disaster relief act of 1969, report, 15279
construction of community mental health centers, hearings, 15471
construction of elementary and secondary schools, to increase educational opportunities, hearings, 15314
cooperative research and demonstration grants, Social and Rehabilitation Service, 14973
education—
construction of television and radio broadcasting facilities, etc., extend, report, 15259
elementary and secondary, amendments of 1969, programs, extend, hearings, 15473
elementary and secondary education act of 1965, 15643
statistical report, 15643
handicapped children, preparation of professional personnel, manual, 15639
more opportunity, college degree, training for job, Office of Education sponsors programs that can assist you!, 15636

INDEX

Grants-in aid—continued

- Federal aid, airport program, labor requirements in contracts, 15691
- Federal grants system, new federalism designed to improve administration, grants (remarks), 15839
- Federal programs, State and local governments, study of major characteristics, 15456
- financial assistance and educational opportunities for nursing students, 15041
- funded redevelopment areas, map, 15533
- gifted and talented children educational assistance, report, 15269
- HUD grants and loans to meet insurability requirements of your property, 15836
- letter of credit procedures (recipient organizations), HUD handbook, 15828
- Medical Foundation of Bellaire, Ohio, health services programs, report, 15296
- mental retardation, awarded by HEW, list, construction training, and other, 15820
- National Institute of Mental Health, research, 14971
- national institutional grants program, report, 15274
- omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
- operating Federal assistance programs, listing compiled during Roth study, report, 15246
- print as House document, report, 15392
- Public Health Service, funds, 1968, construction of facilities, 16264
- staffing of community mental health centers, hearings, 15471
- student financial assistance, hearings, 15312-313
- Grapes, vinifera, chip-bud method of propagating on rootstocks, 14996
- Gravity:
 - International Indian Ocean Expedition, USC&GS Ship Pioneer, data, 15151
 - motion of single bubbles under low gravitational conditions, 16196
 - Gravity waves, *see* Waves.
- Great Britain, photographic products industry and market, 15087
- Great Lakes:
 - pilot, survey, 16032
 - pilotage services, agreement with Canada, 16474
- Great Smoky Mountains National Park, certain lands within and portions of highway bordering, convey to Tennessee, law, 15205
- Greene, Karen, occupational licensing and supply of nonprofessional manpower, 15999
- Greene County, Ark., community profile, 15564
- Greenland:
 - 50-man winter camp at Tuto, design and construction, 15651
 - lights and fog signals, list, change, 16301
- Greeting cards, Library of Congress, list, 16034
- Greyhound Lines, Inc., motor carrier accident, 16115
- Grier, Norman T., tabulations of configuration factors between any 2 spheres and their parts, 16151
- Griffin, A. C., gin-stand research at Stoneville, Miss., 1956-66, 15007
- Griffith, E. D., feasibility study of non-Newtonian gelled fluids as shock and vibration-isolation medium, 15055
- Groemping, Franz A., transition from school to work in selected countries, 16030
- Group insurance, *see* Life insurance.
- Grouse:
 - blue grouse, habitat management, 16423
 - ruffed grouse, habitat management, 16433
 - sage grouse, habitat management, 16434
- Grow with world trade (address), 15888

- Growth, children, research programs, studies in progress, 15124
- Guide to Federal career literature, 15141
- Gulf Coast, passenger lists of vessels arriving at ports, 1820-74, supplemental index, pamphlet to accompany microcopy, 16226
- Gulledge, Eugene A., nomination, hearing, 15423
- Gunnison National Forest, La Garita Wilderness, general information, 15752
- Guns, control act of 1968, questions and answers, 15871
- Gunter, Edgar J., jr., rigid rotor dynamics, 16125
- Guy, Harold P., laboratory theory and methods for sediment analysis, 15811
- Guyana, economic trends and their implications for United States, 15876
- Gypsum, minerals yearbook chapter, 16077

H

- Habitat:
 - management for—
 - blue grouse, 16423
 - bobwhite, 16424
 - California quail, 16425
 - Canada goose, 16426
 - chukars, 16427
 - gray partridge, 16428
 - mallards, 16429
 - mourning doves, 16430
 - pronghorn antelope, 16431
 - ring-necked pheasants, 16432
 - ruffed grouse, 16433
 - sage grouse, 16434
 - wood duck, 16435
- Haggard, John B., jr., motion of single bubbles under low gravitational conditions, 16196
- Hail, resistance of roofing products, errata, 16223
- Hailstones, *see* Hail.
- Halides, metal, vapor pressures, 16105
- Hall, Albert W., three-track runway and taxiway profiles measured at international airports A and B, 16187
- Hamer, E. A. G., reverse osmosis membrane regeneration, 15864
- Handbooks, *see* names of departments, etc., issuing handbooks—also subjects.
- Handicapped:
 - buildings financed with Federal funds, design and construction to be accessible and usable for the physically handicapped, 16407
 - children, education, preparation of professional personnel manual, 15639
 - education, extend programs, elementary and secondary education amendments of 1969, hearings, 15473
 - physically, selective placement in Federal civil service employment, handbook, 15142
 - placement, review, coordinator's score-board, 15136
 - see also* Disabled.
- Handles, plastic mattress handles from Canada, determination of no injury to U.S. industry, 16493
- Harbors:
 - pleasure and business visitors to U.S., port of entry and mode of travel, 16519
 - ports of Philadelphia, a look to the future (remarks), 16050
- Hard core, supervising the hard core, management guidelines, 16004
- Hard core unemployed, *see* Hard core.
- Harelip, U. S., facilities providing cleft lip services, National Institute of Dental Research directory, 16260
- Hargis, Bryan J., evaluation surveys, coverage check, 1964 census of agriculture, 15121
- Harmon, F. N., chip-bud method of propagating vinifera grape varieties on rootstocks, 14996

Harris, Frederick B., prayers offered in Senate, 89th and 90th Congresses, 15351
 Hartwell, John W., talc, soapstone, and pyrophyllite, 16107
 Haverhill, Mass., area wage survey, 16018
 Hawaii:
 census of business, 1967, wholesale trade, area statistics, 15101
 geology of Midway area, Hawaiian Islands (series), 15807
 investigations of floods in Hawaii, progress report, 15800
 Kilauea Volcano, Oct. 1963 eruption, 15804
 watersheds, survey, plan of work, 15004
 Hawaiian Islands National Wildlife Refuge, general information, 16451
 Haynsworth, Clement F., jr. nomination, hearings, 15466
 Hazardous substances:
 child protection under Federal hazardous substance act, reports, 15228, 15252
 Federal hazardous substances act, amend, reports, 15228, 15252
 Head, visual acuity under water without face mask, 16069
 Headsets, hi-fi earphones for submarine sonar, consideration, 16065
 Health:
 atom and your health (remarks), 15078
 characteristics by color, differentials, 16375
 coal miners, improve working conditions—hearings, 15470
 report, 15390
 Economic Opportunity Office health services programs, report, 15296
 emergency health series, 16341
 emergency health services digest, 16342
 Federal coal mine health and safety act of 1969, report, 15390
 Federal employee health series, 16343
 health information series, 16346
 health manpower source book, 16256
 national expenditures, 16418
 occupational health, new approaches to old problems (address), 16364
 Occupational Safety and Health Bureau, general information, 16351
 promote in building trades and construction industry in Federal and federally financed construction projects, law, 15202
 public—
 USSR—
 planning and financing, study, 15932
 work of government and research organizations, study, 15968
 Public Health Service grants, etc., funds, 1968, construction of research facilities, 16264
 sector, changing patterns of cost and structure (charts), 16027
 services, and surveys, research relating to children, 15124
 statistics—
 data from national health survey, 16375-377
 data from National Vital Statistics System, 16378
 see also Mental health.
 Health centers, glaucoma screening, 16343
 Health, Education, and Welfare Department:
 accident prevention program (remarks), 16335
 community action program service activities, Economic Opportunity Office, variations in cost and performance, GAO review, 15788
 Indian health services and facilities, appropriations, 1970, report, 15398
 mental retardation grants awarded 1968, list, construction, training, and other, 15820

Health insurance:
 consumer credit insurance transactions, protect from abuses relative to excessive charges, hearings, 15418
 Federal health insurance for the aged, social security rulings, 16413
 independent plans in 1968, preliminary estimates, 16419
 medicare, medical insurance, \$50 annual deductible, 16420
 see also Old age, survivors, disability and health insurance.
 Health Services and Mental Health Administration, grants-in-aid and other financial assistance, programs administered, 16344
 Hearing, see Echolocation (physiology).
 Heat, body armor in hot humid environment, studies in heat acclimatized men, 16057
 Heat exchangers, water-to-cryogenic hydrogen, heat transfer characteristics, 16178
 Heat-of-hydration, test, precision of quartz crystal and mercury differential thermometers, 15665
 Heat pollution, see Thermal pollution—Water pollution.
 Heat shields, suspended surface coatings for heat shielding, USSR study, 15918
 Heat transfer:
 characteristics of water-to-cryogenic-hydrogen heat exchanger, 16178
 heat transfer and pressures on 75° swept delta wing with trailing-edge flap at Mach 6 and angles of attack to 90°, 16171
 radiative thermal conductivity theory of equilibrium and stability of high-current self-compressed discharge in optically dense plasma, 15062
 Heating, laminar heating-rate distributions of 15° cone at Mach number of 10.6, effects of angle of attack and bluntness, 16190
 Helicopters, fluidic vortex valve servoactuator development, 15056
 Helium:
 arc, spectroscopic study, 16162
 helium-oxygen environment, blood of subjects exposed at 7 atmospheres pressure, carbonic anhydrase analyses, 16061
 thermodynamic properties, and real-gas effects in critical flow through nozzles, errata, 16149
 Hemami, H., techniques for generation of control and guidance signals derived from optical fields, 16146
 Hematopoiesis, see Blood.
 Hemisphere, Western, businesses, executive officers and managerial personnel, exempt from immigration numerical limitation, report, 15367
 Hempstead County, Ark., community profile, 15565
 Henderson, John B., remarks, Sept. 24, 1969, 15178
 Henkes, William C., perlite, 16092
 Henn, John J., methods for producing alumina from clay evaluation of 2 lime sinter processes, 16099
 Heredity, see Genetics.
 Herlong, A. Sydney, nomination, hearing, 15422
 Hester, Rupert, background and motivational characteristics of medical officer candidates for submarine service, 16068
 Heyman, Joseph S., evaluation of technique for measuring ion energy loss in vapor-deposited materials, 16179
 Hickel, Walter J., remarks, Oct. 8, 1969, 15852
 Hickey, M. E., investigations of plastic films for canal linings, 16392
 Hickman, K. E., pumping and energy recovery systems for reverse osmosis desalination plants, 15855

INDEX

- Higgins, William J., market prospects for U.S. horticultural products in Japan, 15748
- High School News Service, report (periodical), 15524
- High schools, elementary and secondary construction act of 1969, hearings, 15314
- High temperature materials, *see* Materials.
- Higher education, *see* Colleges and universities.
- Highlights of research progress in human development, 16257
- Highway engineers:
opportunities, Public Roads Bureau—
highway or highway bridge engineering, bridge to your success, 16385
professional engineer, 16388
- Highway safety, *see* Safety of life.
- Highways, *see* Roads and highways.
- Hill-Burton program, hospitals and related health facilities, representative construction costs, 16370
- Hillegass, T. J., use of effective speed as evaluation criterion, 16387
- Historic American Buildings Survey, selections, 16273-274
- Historic sites, northeast Georgetown residential architecture, Washington, D.C., 16273
see also names of historic sites.
- Historic structures report (series), 16275
- History:
American writings, 1959—
departmental edition, 15028
document edition, 15217
see also Naval history.
- History and Geography, Pan American Institute of, *see* Pan American Institute of Geography and History.
- Hoekstra, Pieter, dielectric properties of clay suspensions in frequency range from 50 HZ to 20 KHZ, 15650
- Hoffman, Lawrence H., approximation to statistics of midcourse velocity corrections, 16159
- Holders, for electrical and electronic components, Federal item identification guide, 15594
- Home Airmotive, Inc., aircraft accident, 16283
- Home economics, home and garden bulletin, 14993
- Homemaking, *see* Home economics.
- Homes:
FHA regulations, amendments, mortgage insurance, 15707
homebuyers, mortgage credit, make more available during periods of tight money, hearings, 15419
new one-family, sold and for sale, 15119
veterans, loans, authority to set interest rates on mortgages, extend, 15268, 15284
- Honda, T. S., fluidic vortex valve servomotor, 15056
- Hoover, I. H., paper, June 17, 1969, 15680
- Hopi Indians, economic advancement and general welfare, promote, report, 15255
- Hopi Tribe, *see* Hopi Indians.
- Hopkins, John B., fabrication and characteristics of microwave, background diodes in indium arsenide, 16164
- Hops, stocks, 16486
- Horowitz, Loueela A., medical care price changes, medicare's first 3 years, 16416
- Horse bots, *see* Flies.
- Horseshoe Bend National Military Park, general information, 16276
- Horticultural products, market prospects for U.S. horticultural products in Japan, 15748
- Hose, and hose assemblies, Federal item identification guide, change, 15505
- Hospital corpsmen, Navy, predicting academic performance, 16060
- Hospitals:
Army medical facilities, interpersonal relations in care and management of patients, guide for instruction of non-professional personnel, 15047
- Hill-Burton hospitals and related health facilities, representative construction costs, 16370
- packaged disaster hospital, series 10,000 mod A, component listing and storage data, errata sheet, corrected alphabetical index, 16341
- prevent urinary tract infections, 16366
- Public Health Service, grants, etc., for construction, 1968 funds, 16264
see also Veterans hospitals.
- Hot Springs County, Ark., community profile, 15566
- Hofine, Martin, mathematical geodesy, 15672
- Hours of labor:
hours of service act amendments of 1969, report, 15267
railroad employees, reduce 16-hour maximum limitation for certain employees, report 15267
- House, Frederick B., inference of stratospheric temperature and moisture profiles from observations of infrared horizon, 16135
- House Administration Committee, House: committee print, 15319
reports, 15240, 15243, 15246-248, 15286-290
- House documents, 15216-226
- House of Representatives:
appropriations, 1970, legislative, report, 15271
disbursements, detailed statement, 15319
employees, pay, per annum gross rates, of certain positions, report, 15240
nonvoting delegate from District of Columbia, establish, report, 15411
- House reports, public bills, 15227-298
- House Restaurant, Select Committee on, funds, provide, report, 15243
- Households, and family characteristics, current population reports, 15115
- Housing:
building and planning, overseas missions, bibliography, 15838
construction in hazardous geologic areas, Federal involvement, report, 15244
credit, brand new ball game, the 70's (address), 15704
current reports, housing vacancies, 15113
Federal housing and urban development programs, progress report, 15424
Federal programs, extend, report, 15397
519 East Main Street, tribute to partnership and involvement (address), 15826
Government, industry, and labor partnership (remarks), 15840
housing and urban development act of 1969, reports, 15297 15371
laws, extend, report, 15397
low and moderate income families (address), 15824
low-rent housing financing handbook, 15833
minimum property standards, multifamily, 15708
national housing act, amend, hearings, 15421
production, subsidies, National Corporation and Limited Partnerships, 15825
savings and home financing, 1968, source book, 15706
search for unity (remarks), 15842
this is operation breakthrough, 15844
vacant units in U.S., 15113
see also Discrimination in housing.

- Housing and Urban Development Department:
 Assistant Secretary, nomination of Eugene A. Gullledge, hearing, 15423
 disaster relief activities, 15829
 housing and urban development programs, progress report, 15424
 HUD guide series, 15827
 HUD handbooks, 15828-833
 HUD, rehabilitation grants and loans to meet insurability requirements of your property, 15836
 IP series, 15835-836
 letter of credit procedures (recipient organizations), HUD handbook, 15828
 MP series, 15837-838
 newsletter, 15834
 statistical yearbook, 15837
 this is operation breakthrough, 15844
 Houston, David R., use of soil fumigants to control spread of *Fomes annosus*, 15770
 Houston, Tex., area wage survey, 16021
 How foreign policy is made, 16467
 How to buy lawn seed, 14993
 How to respect and display our flag, 16522
 Howard County, Ark., community profile, 15567
 Howes, Walton, L., phenomenological theory of loudness, 16173
 IHSMHA, *see* Health Services and Mental Health Administration.
 Hubs, hub clamps, Federal item identification guide, 15515
 HUD, *see* Housing and Urban Development.
 Huddle, Franklin P., technology assessment of Vietnam defoliant matter, case history, 15331
 Hudson, Wayne R., transistor performance in intense magnetic fields, 16177
 Hudson Bay, sailing directions, change, 16298
 Huibers, D. Th. A., ozone treatment of secondary effluents from waste-water treatment plants, 15745
 Hulls (ship):
 cargo ship hulls, high-strength low-alloy steel weldments, study of factors which affect adequacy, 16400
 Human race, *see* Man.
 Human relations, *see* Industrial relations.
 Human resources, *see* Ability.
 Humes, John P., nomination, hearing, 15454
 Humidity, body armor in hot human environment, studies in heat acclimatized men, 16057
 Hunger:
 food gap, extent of poverty and malnutrition in United States, 15477
 human needs, national nutrition survey, hearings, 15478
 Husbands and wives, taxation of married couples, tax reform hearings, summary of testimony, 15348
 Huss, Ralph E., despatches from U.S. consuls in LaPaz, Mexico, 1855-1906, 16219
 Hyde, Floyd H., address Oct. 1, 1969, 15823
 Hydraulic fluids, *see* Fluids.
 Hydraulic mining, *see* Mines and mining.
 Hydraulics:
 alluvial channel, response to changes of hydraulic and sediment-transport variables, 15802
 model investigation, Webbers Falls Lock and Dam, 15668
 pipe-arch culverts, hydraulic analysis, electronic computer program, 16381
 Hydroacoustics, *see* Sound.
 Hydrodynamics:
 school formation of fish, hypothesis, USSR study, 15974
 studies for electroanalysis.
 Hydroelectric power plants, *see* Electric power plants.
 Hydrogen, water-to-cryogenic hydrogen heat exchanger, heat transfer characteristics, 16178
 Hydrology, and some effects of urbanization on Long Island, N.Y. (series), 15806
 Hydromechanics, fluidic vortex valve servo-actuator development, 15956
 Hygiene, hygienic significance of metaphos as atmospheric pollutant, USSR study, 15904
 Hyperbaric chambers, *see* Test chambers.
 Hypersonic flow, *see* Flow.
- I
- I.C.C., *see* Interstate Commerce Commission.
 I.R.S., *see* Internal Revenue Service.
 IAEA, *see* International Atomic Energy Agency.
 ICC, *see* Interstate Commerce Commission.
 Ice:
 determining dynamic properties of snow and ice by forced vibration, 15039
 river ice conditions, effects of thermal pollution on, simplified method of calculation, 15649
 Idaho:
 census of business, 1967—
 selected services, area statistics, 15091
 wholesale trade, area statistics, 15102
 IFAC, *see* International Federation of Automatic Control.
 IFR, *see* Instrument flying rules.
 Igneous rocks:
 Boulder batholith region, Mont., distribution of thorium, uranium, and potassium and its bearing on radiogenic heat production and heat flow, 15805
 petrology of basalt cores from Midway Atoll, 15807
 ILO, *see* International Labor Organization.
 Immigration and emigration:
 immigration and nationality act, amend, report, 15367
 in-migration into United States of aliens in professional and related occupations, annual indicator, 15845
 Western Hemisphere businesses, executive officers and managerial personnel, exempt from numerical limitation, report, 15367
 Immigration and Naturalization Service, services provided, need to revise fees, GAO report, 15785
 Immunity, tetanus immunity in USSR population, USSR study, 15957
 Immunology, transplantation immunology research, collaborative program of National Institute of Allergy and Infectious Diseases, 16266
 Impedance:
 mechanical, measurements, concrete vibration study, 15667
 mutual impedance of loop antennas over finitely conducting ground, 15674
 Imports, *see* Tariff—also names or classes of articles imported.
 In a quiet countryside, a disquieting subject, 16483
 In your service, the work of Uncle Sam's forest rangers, 14988
 Incentive contracting guide, DOD and NASA guide, 15495
 Income:
 changing patterns in New York City, facts, 16028
 consumer income, series, 15117
 families and persons in United States, 1967, supplementary report, 15117
 farm, gross and net, statistical series of Agriculture Dept., 14987
 tax returns statistics, individual, 15874
 Income tax:
 allocation of deductions, tax reform hearings, summary of testimony, 15339
 District of Columbia, increase hearings, 15430
 report, 15407
 double taxation, convention with Netherlands, text, etc., 15354

INDEX

Income tax—Continued

- Federal Government should grant annually specific percentage of its income tax to State governments, national debate topic for high schools, 1969-70, selected excerpts, etc., 15224
- internal revenue bulletin, cumulative, index-digest supplement system, supplement, 15865
- IRS looseleaf regulations system, 15869
- laws, reform—
 - print additional copies, report, 15247
 - report, 15242
 - report, 15338
 - supplemental report, print additional copies, report, 15248
 - technical memorandum of Treasury position, 15448
 - testimony and additional statements, 15434-447
- Treasury Department statements and recommendations, hearings, 15449
- returns statistics, individual, 15874
- standard deduction, tax reform hearings, summary of testimony, 15345
- surcharge, extend withholding tax rates for 15 days, report, 15236
- indemnity, double indemnity insurance under servicemen's group life insurance, amend U.S. Code, report, 15380
- Independence County, Ark., community profile, 15568
- index digests, index-digest supplement system, internal revenue bulletin, cumulative, 15865-867
- Indexes:
 - Czechoslovakia, subject index of legal regulations published, 1968, list, 15900
 - epilepsy abstracts, 1947-67, list, 16254
 - flood damage prevention, bibliography, 16497
 - highway safety literature, 16240
 - institutions of higher education, by State and congressional district, 15633
 - patents, 1968, subjects of inventions, 16322
 - war in Vietnam, report, 15044
- India:
 - accessions list, American Libraries Book Procurement Center, New Delhi cumulative list of serials, annual supplement, 16033
 - crisis fleeing, military medicine, World War II, original reports, 15061
 - west coast, sailing directions, change, 16300
- Indian Affairs Bureau, appropriations, 1970, report, 15398
- Indian Claims Commission, appropriations, 1970, report, 15398
- Indian lands:
 - Alaska, grant certain lands to natives, hearings, 15321
 - Alaska native land claims, settle, hearings, 15321
 - loans for acquisition of lands by Indian tribes and tribal corporations, report, 15372
 - valuation, compensate Indians of California, law, 15212
- Indian Ocean:
 - explorations of survey ship, USC&GR Pioneer, bathymetry, geomagnetic and gravity data, 15151
 - lights and fog signals, list, 16302
 - recent Ostracodes of family Pontocypridae, 16404
- Indians:
 - Americans, rural Indian Americans in poverty, 1617
 - California, land value, compensate, law, 15212
 - dental services, annual report, 16339
 - education of children, extend programs elementary and secondary education act amendments of 1969, hearings, 15473

Indians—Continued

- future of Indians (remarks), 15852
- loans for acquisition of lands, provide, report, 15372
- relationship with Federal government (address), 15847
- suicide among American Indians, 16372
- indium arsenides, microwave backward diodes, fabrication and characteristics, 16164
- Indonesia, agricultural commodities, agreement, 16473
- Industrial management, Apollo program management, staff study, 15327
- Industrial relations:
 - human relations in small business, 16402
 - labor-management relations act, amend, report, 15283
- Industrial safety, *see* Safety of life.
- Industrial wastes, *see* Waste products.
- Industries, *see* names of industries.
- Industry:
 - injury rates, 16012
 - profiles, 15086
 - safety of life, mechanical and physical hazard series, 16007
 - useful market surveys and industry reports issued by United Nations Economic Commission for Africa, supplement, 15170
 - wage survey, footwear, 16024
 - see also* name of industry.
- Inert gases, *see* Noble gases.
- Inertial guidance, accurate strapdown direction cosine algorithm, 16160
- Inertial systems, *see* Inertial guidance.
- Infections, urinary tract infections, prevent in your hospital, 16366
- Inflation (finance):
 - state of the economy, present and future (remarks), 15178
- Influenza, anti-influenza drug amantidine, evaluation of prophylactic activity, USSR study, 15950
- Information storage and retrieval systems:
 - information robots and manipulators, USSR study, 15935
- NASA scientific and technical information system, and how to use it, 16147
- Infrared rays, infrared heating simulation of Mach 4.63 flight on X-15 horizontal stabilizer, evaluation, 16165
- Infrared spectrum, *see* Spectra.
- Inheritance and transfer tax:
 - double taxation, convention with Netherlands, text, etc., 15354
- internal revenue bulletin, cumulative index-digest supplement system, 15866
- Injections:
 - method of external injection of electrons into closed toroidal systems, 15072
 - of inviscid separated jet at oblique angle to moving stream, 16194
- Injuries:
 - Federal work injury facts (series), 15645
 - preventing injury from falls and falling objects, occupational safety aid, 16010
 - rates, by industry, 16012
 - types, incidence and associated disability, July 1965-June 1967, U.S., 16376
 - using injury statistics, 16008
 - work injuries, civilian Federal employees during 1968, number, duration, and direct cost factors, 15645
- Inlets (shore):
 - outlet works inlets, characteristic pressure distribution, 15666
- Insect traps, virgin female traps for fall armyworm, use to direct males and to determine seasonal distributions, 15005
- Insecticides, organophosphorus, methods of analyzing trichlorimetaphis and carbophos in aerosol containers and in air, USSR study, 15954
- see also* Pesticides.

Insects :
 developing resistant plants, 15006
 forest, population dynamics, 15772
Inspection (industrial), *see* names of articles, etc., inspected.
Inspectors, air carrier operations, handbook, 15690
Installations (military) :
 construction authorization, 1970—
 hearings, 15301
 report, 15235
 defense disposal manual, change, 15494
 naval shore facilities, definitive designs, changes, 16289
Installations (naval), *see* Installations (military).
Institute for Telecommunication Sciences, ESSA technical report ERL-ITS series, 15674-675
Institutions, institutional meat purchase specifications, approved by USDA, cured, dried, and smoked beef products, 15480
Instrument flying rules, aviation air traffic patterns, 15679
Instruments, improvement of existing instruments and creation of new ones for seismic stations, USSR study, 15948
Insurance :
 standards for property, rehabilitation grants and loans to meet insurability requirements, 15536
 Veterans Administration, field offices, savings available through consolidation, GAO report, 15789
 see also types of insurance.
Insured banks, *see* Banks and banking.
Integral equations, *see* Equations.
Interagency Committee on Mexican-American Affairs, *see* Cabinet Committee on Opportunity for Spanish-speaking People.
Inter-American Development Association, appropriations, 1970, hearings, 15299
Interest and usury :
 emergency student loan act of 1969, report, 15249
 insured banks, paid on savings, maximum interest rates, regulation, extend, report, 15376
 maximum rates of interest which may be charged by federally supervised banks, regulate, hearings, 15419
 State and local bond interest, tax reform hearings, summary of testimony, 15347
 veterans home loans, authority to set interest rates on mortgages, extend, reports, 15268, 15284
Interest equalization tax act :
 extend—
 law, 15198
 reports, 15234, 15406
Interferometers, radio-astronomy interferometer experiment, optical stimulation, 16156
Interferon, interferons and interferonogens, USSR study, 15970
Intergovernmental Relations Office :
 expenses, appropriations, authorize—
 hearings, 15317, 15460
 report, 15408
Interior and Insular Affairs Committee, House :
 hearings, 15320-321
 reports, 15255-258, 15262-264, 15278
Interior and Insular Affairs Committee, Senate :
 hearings, 15461-463
 reports, 15365-366, 15369, 15372, 15374-375
Interior Department :
 America's department of natural resources, 15848
 appropriations, 1970, report, 15398
 Investigate feasibility of water resource development proposals, report, 15261
 saline water research and development progress, reports, 15853-864

Internal revenue :
 code of Federal regulations, 15875
 internal revenue bulletin, cumulative index-digest supplement system, 15865-867
 see also names of certain taxes, e.g. Income tax.
Internal Revenue Service :
 career opportunities—
 revenue agent, 15872
 revenue officer, 15873
 internal auditor, 15868
 looseleaf regulations system—
 excise taxes, reprint, 15870
 income tax, 15869
Internal Revenue Taxation Joint Committee, committee prints, 15339-350
Internal Security Committee, House, hearings, 15322
International agreements, treaties and other international agreements, 16484-485
International Atomic Energy Agency, application of safeguards to cooperation, agreement with Iran 16481
International Commerce Bureau, international business publications, checklist, 15889
International Development Agency :
 centrex telephone directory, 16462
 economic assistance funds improperly used to finance vehicles for defense requirements, GAO report, 15778
International exchanges :
 Smithsonian service, annual report, 16405
 teachers, opportunities abroad, 15642
International Federation of Automatic Control, papers presented at IFAC, June 16-21, 1969, Warsaw, USSR study, 15980
International Indian Ocean Expedition, 1964, survey ship, USCGS Pioneer, bathymetry, geomagnetic, and gravity data, 15151
International Labor Organization, and United States, 16006
International organizations :
 international organization and conference series, 16470-471
 public, exempt from District of Columbia unemployment compensation act, report, 15382
 United States foreign credits, 16312
International Paris Airshow, aerospace technology marketing display, report, 15332
International postal service, international mail, general information, 16329
International relations :
 aims and strategy of U.S. foreign policy (address), 16469
 American mood in foreign affairs, U.S. National Commission for UNESCO, memo, special issue, report, 16483
 foreign relations of U.S., diplomatic papers, Eastern Europe, Soviet Union—
 departmental edition, 16466
 document edition, 15216
 general foreign policy series, 16467-469
 how foreign policy is made, 16467
 strategy and science, toward a national security policy for the 1970's, hearings, print as House document, report, 15287
 toward an open world (address), 16468
 United States—
 recognition of foreign governments, expressing sense of Senate, report, 15358
 role in Pacific community (address), 16464
Interparliamentary Group, Mexico-United States, *see* Mexico-United States Interparliamentary Group.
Interstate agreements :
 District of Columbia, adoption of interstate compact on juveniles, report, 15383
 Upper Niobrara River compact, congressional consent, law, 15200

INDEX

- Interstate and Foreign Commerce Committee, House:
 hearings, 15323-325
 reports, 15228, 15285, 15293
 Interstate commerce act, *see* Carriers.
 Interstate Commerce Commission, policies and practices, review, hearings, 15426
 Interstate compacts, *see* Interstate agreements.
 Intestines, parasites in, of man, morphology of diagnostic stages, 16355
 Inventions, index of patents, 1968, subjects, 16322
 Invertebrates, neoplasms and related disorders, 16258
see also Fossils.
 Inverters, inverter testing of high-temperature cesium-vapor thyristors, 16142
 Investments:
 forestry opportunities under three investment criteria, computer program for evaluating, 15774
 investment credit, repeal, tax reform hearings, summary of testimony, 15350
 Investors:
 institutional, effect on securities market, study, extend time and increase authorization—
 hearing, 15325
 report, 15285
 Inviscid flow, *see* Flow.
 Ion thrusters, electron bombardment thruster operated with cusped magnetic field, 16188
 Ionization, multiphoton ionization of sodium atom, 15073
 Ionizing radiation, effect on ammonium perchlorate-base fuel combustion, USSR study, 15899
 Ionosphere, telecommunication facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement with Australia, 16472
 Ions:
 ion energy loss in vapor-deposited materials, evaluation of technique for measuring, 16179
 negative ion production in atmospheric gases, measurements, 16131
 IP series, 15835-836
 Iran, atomic energy cooperation for civil uses, agreement, 16481
 Iron, iron and steel scrap, use in extraction of copper from oxides, principles and application to pure systems, 16101
 Irradiation, *see* Radiation.
 IRS, *see* Internal Revenue Service.
 Irwin, Kirk S., summary of XB-70 airplane cockpit environmental data, 16189
 Isolation, non-Newtonian gelled fluids as shock- and vibration-isolation medium, feasibility study, 15055
 Isothermal flow, *see* Flow.
 Isotopes, radioisotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
 Israel:
 foreign trade regulations, 15168
 mineral industry, minerals yearbook chapter, 16084
 Istle, suspension of duty, continue, law, 15213
 Italian American War Veterans of United States, Inc., proceedings, print as House document, report, 15290
 Italy, Ambassador, nomination of Graham A. Martin, hearing, 15454
 ITV (instructional television), *see* Television.
 Ives, George S., nomination, hearing, 15474
- J**
- Jabara, M. A., Tiber Dam auxiliary outlet works, 16394
 Jacklin, H. M., jr., remarks, Jan. 15, 1968, 16241
 Jackson, T. J., textile machinery trends, 1964-68, 15088
 Jackson County, Ark., community profile, 15569
 Jackson County, N.C., forest inventory statistics, 16498
 Japan:
 market prospects for U.S. horticultural products in Japan, 15748
 space cooperation, agreement, 16476
 United States Marines in occupation of Japan, 16045
 Jefferson County, Ark., community profile, 15570
 Jefferson County, Mont., gold resources, systems approach to recovering, 16104
 Jet engines, *see* Engines (aircraft).
 Jets:
 inviscid separated, injection at oblique angle to moving stream, 16194
 twin-jet, swept-wing fighter airplane, analysis of flat-spin characteristics, 16166
 Jewels, *see* Precious stones.
 Job analysis, job restructuring, handbook, 16504
 Job Corps, ex-job corpsmen survey, hearings, appendix, 15315
 Job seekers, *see* Unemployed.
 Jobs, *see* Civil service—Employment.
 Jöhler, J. Ralph, mutual impedance of loop antennas over finitely conducting ground, 15674
 John Day, Oreg.:
 flood plain information, 15655
 floods, how to avoid damage, 15659
 John F. Kennedy Space Center, ground wind characteristics, 16134
 Johnson, Charles C., jr.:
 addresses, lectures, etc.
 May 25, 1969, 16348
 June 4, 1969, 16364
 June 27, 1969, 16337
 Sept. 4, 1969, 16368
 Johnson, Laverne C., predicting academic performance of Navy hospital corpsmen, 16060
 Johnson, Thomas A., Army logistician, 15033
 Johnson County, Ark., community profile, 15571
 Joint Chiefs of Staff, chairman reappointment for additional term of 1 year, authorize, hearing, 15417
 Joint Commission on Coinage, *see* Coinage Joint Commission.
 Joint Publications Research Service, JPRS series, 15898-991
 Jordan, John W., accurate strapdown direction cosine algorithm, 16160
 Jost Van Dyke, trees, description, etc. list, 15766
 JPRS series, 15898-991
 Judicial Conference of United States: proceedings—
 departmental edition, 14970
 document edition, 15222
 Judiciary Committee, House, reports, 15227, 15233
 Judiciary Committee, Senate:
 committee print, 15469
 hearings, 15464-468
 reports, 15367, 15373, 15385
 Junior Federal assistant, examination announcement, 15144
 Jurisdiction, cede to Montana concurrent jurisdiction with United States over real property comprising Veterans Administration Center, Fort Harrison, Mont. law, 15194
 Justice Department, Tax Division, opportunities for attorneys, 15993

Juvenile delinquency:

- District of Columbia, adoption of interstate compacts on juveniles report, 15383
- prevention and control act of 1968, America's best hope, 16196
- Juveniles, *see* Youth.

K

- Kakehi, Hirotake, counting characteristics of medium-level whole-body counter, 15076
- Karp, Sherman, communication efficiency of quantum systems, 16203
- Kasdon, David L., international family planning, 1966-68, bibliography, 16350
- Katsanis, Theodore, FORTRAN program for calculating transonic velocities on blade-to-blade stream surface of turbomachine, 16176
- Keim, Kathleen, foreign trade regulations of Israel, 15168
- Keller, Robert F., nomination, hearing, 15457
- Kelly, James E., selected examination findings related to periodontal disease among adults, United States, 16377
- Kennedy Space Center, *see* John F. Kennedy Space Center.
- Kennewick division, *see* Yakima project.
- Kentucky:
 - decay in upland oak stands, 15773
 - electric rate book, 15722
 - Federal outlays, report of Federal Government's impact by State and county, 16513
- Keusch, Preston, investigation of basic properties of irradiation polyethylene memory materials, 16123
- Keyes, J. Wayne, pressures and heat transfer on 75° swept delta wing with trailing-edge flap at Mach 6 and angles of attack to 90°, 16171
- Khalafalla, Sanaa E., extraction of copper from oxides using iron and steel scrap, principles and application to pure systems, 16101
- Kidneys, diseases, Massachusetts Kidney Disease Planning Project report, 16353
- Kilauea Volcano, October 1963 eruption, 15804
- Kilmer Job Corps Center for Men, Edison, N.J., effectiveness and administration, GAO report, 15779
- Kingsley, Neal P., pulpwood production in Northeast, 15776
- Kinney, Terry B., summary of reported estimates of heritabilities and of genetic and phenotypic correlations for traits of chickens, 14986
- Kitchens, planning guide, 15709
- Klamath Basin National Wildlife Refuges, general information, 16446
- Klock, G. O., some autecological characteristics of elk sedge, 15760
- Knobs, Federal item identification guide, 15506
- Knott, J. M., sedimentation in upper Stony Creek basin, eastern flank of Coast Ranges of northern Calif., 15815
- Knowledge, software of change (address), 15176
- Kolipinski, Milton C., effects on mineralized artesian water on fresh-water biota of Taylor Slough, Everglades National Park, Fla., 15795
- Kootenai Indians, judgment funds, disposition, report, 15256
- Korea, Republic, mineral industry of South Korea, minerals yearbook chapter, 16087
- Kraken (U.S.S.):
 - loan, extension, agreement with Spain, 16482
- Kraus, K. A., desalination research at Oak Ridge, 15862

L

- L series, 15131-132
- Labels, catalog of copyright entries, 15488
- Labor:
 - Federal-aid airport program, labor requirements in contracts, 15691
 - problems (remarks), 16003
 - textile and apparel industries, 16025
 - see also* headings beginning Labor.
- Labor and Public Welfare Committee, Senate:
 - hearings, 15470-476
 - reports, 15360, 15368, 15390
- Labor Department:
 - concern with labor problems (remarks), 16003
 - Detroit, Mich., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 15780
 - Los Angeles County, Calif., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 15781
 - safety training programs, occupational safety aid, OSA LS series, 16010
- Labor laws, State, laws enacted in 1968, review, 16011
- Labor-management relations act, *see* Industrial relations.
- Labor Standards Bureau, bulletins, 16007-8
- Labor Statistics Bureau:
 - BLS report series, 16012
 - bulletins, 16013-25
- Labor unions, foreign-aid activities, hearing, 15451
- Laboratories:
 - educational laboratories, national program, 15637
 - laboratory analysis, 15811
 - laboratory theory and methods for sediment analysis, 15811
- Labovitz, I. M., Federal programs of grants-in-aid to State and local governments, 15456
- Labrador, sailing directions, change, 16298
- Labrador Sea, and Grand Banks region, 1966, oceanography, 15154
- Lafayette County, Ark., community profile, 15572
- La Garita Wilderness, Rio Grande and Gunnison National Forests, general information, 15752
- Lakes, *see* names of lakes.
- Lambert's theorem, *see* Equations.
- Lamp holders, Federal item identification guide, 15507
- Lamps, rare gas resonance lamps, 16230
- Lancaster, E. R., unified form of Lambert's theorem, 16158
- Land Management Bureau, appropriations, 1970, report, 15398
- Landing (aircraft):
 - all weather landing development tests, 16487
- Landlords and tenants, nationwide tenants rights program (address), 15822
- La Paz, Mexico, despatches from U.S. consuls, 1855-1906, pamphlet to accompany microcopy, 16219
- Larson, Clarence E., remarks, Oct. 13, 1969, 15084
- Lathes, copying shoe lathes, suspension of duty, continue, law, 15204
- Latin America, programs and operations of American Institute for Free Labor Development, hearing, 15451
- Latvian Soviet Socialist Republic, future in science, technology scanned, 15917
- Law:
 - slip laws (public) 91st Congress, 15194-214
 - see also* subjects.

INDEX

- Law enforcement, omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
- Law Enforcement Assistance Administration, financial guide for administration of planning and action grants awarded under title 1, of omnibus crime control and safe streets act of 1968, 15992
- Lawns, how to buy seed, 14993
- Lawrence, Mass., area wage survey, 16018
- Lawrence County, Ark., community profile, 15573
- Laws, *see* Labor laws—Law—also subjects, lawyers:
- judge advocates and law specialist officers for Armed Forces, procurement and retention, amend U.S. Code, hearing, 15305
 - Justice Department, Tax Division, opportunities for attorneys, 15993
 - slippers recovery of attorney's fees, hearing, 15429
 - Veterans Administration, Office of the Chief Attorney, operating procedures, 16523
- LEAA, *see* Law Enforcement Assistance Administration.
- Lead, disposal from national and supplemental stockpile, law, 15195
- Leadership, ROTC program, where the leaders are, 15059
- Leak, William B., rates of value increase for yellow birch in New England, 15767
- Learning, children with specific learning disabilities act of 1969, report, 15270
- Leaves, foliar anatomy of genera *Connellia*, *Cottendorfia* and *Navia* (Bromeliaceae), monograph, 16403
- Lebanon, Army area handbook, 15049
- LeBel, Peter J., analysis of gamma-ray-backscatter technique for direct measurement of density of Martian atmosphere, 16180
- Lederman, Leonard L., on analysis of allocation of Federal budget resources as indicator of national goals and priorities, 16211
- Lee County, Ark., community profile 15574
- Lee County, S.C., board of education, land conveyance, report, 15361
- Legislation, *see* Labor Laws—Law—also subjects.
- Legislative appropriations, *see* Appropriations.
- Lending operations, *see* Loans.
- Letters:
- microcopy, pamphlet to accompany—Navy Department, Secretary, letters sent to officers, 1798–1868, 16214
 - Treasury Department, Secretary—letters sent to collectors of customs at Pacific ports, 1850–78, 16216
 - received 1833–69 from collectors of customs, 16215
 - received, 1854–61, from special agents, 16217
- Lewis, John R., tin, 16108
- Lewis and Clark Trail Commission, appropriations, 1970, report, 15398
- Libraries, medical, Public Health Service, grants, etc., for construction, 1968, funds, 16264
- Library accessions, India, American Libraries Book Procurement Center New Delhi cumulative list of serials, annual supplement, 16033
- Library of Congress:
- accessions, India, American Libraries Book Procurement Center, New Delhi cumulative list of serials, annual supplement, 16033
 - appropriations, 1970, legislative—hearings, 15415
 - report 15271
 - cards, books, and records, list, 16034
- Library of Congress—Continued catalogs—
- music and phonorecords, 16038
 - national union catalog, register of additional locations, 16039
- Public law 480 project, accessions list, India, cumulative list of serials, annual supplement, 16033
- El Libro colorante de las comidas buenas, 15001
- Licenses:
- occupational licensing of nonprofessional manpower 15999
 - see also* classes of persons to whom, or subjects for which, licenses are issued.
 - Life, scientists approach, sources of life, USSR study, 15967
- Life insurance:
- consumer credit insurance transactions, protect from abuses relative to excessive charges, hearings, 15418
 - national service life—
 - insurance act, proposals, hearing, 15336
 - modified life, information about conversion and premium rates, holders in V, RS, W, H, and RII programs, 16524 - program for veterans of Vietnam era, report, 15378
 - veterans—
 - servicemen's group life insurance—dismemberment coverage, amend U.S. Code, report, 15381
 - double indemnity coverage, amend U.S. Code, report, 15380
 - increase, report, 15377 - veterans and servicemen—
 - government and group programs, proposals, hearing, 15336
 - pending bills, proposals, hearing, 15336
- Life sciences, Air Force research objectives, 1969, OAR, 15016
- Life support systems:
- astronaut's capabilities to maintain cabin habitability in weightless conditions, study, 16130
 - high altitude and space flights, USSR study, 15966
- Light, attenuation of visible light by falling snow, 15038
- Lighting, *see* Lights and lighting.
- Lighting equipment, *see* Lights and lighting.
- Lights and lighting:
- airfield, evaluation of Air Force portable system of lighting, 15694
 - economy approach, lighting aids, 15683
 - Naval Oceanographic Office, lists—
 - Europe and Africa, west coasts, etc., change, 16303
 - Greenland, North and South America, east coast, etc., 16301
 - Pacific Ocean, western, etc., 16302
- Lime-soda sintering, producing alumina from clay, methods, 16099
- Lincoln County, Ark., community profile, 15575
- Lingeman, Carolyn H., comparative morphology of hematopoietic neoplasms, 16259
- Linings:
- canal, investigations for use of plastic films, 16392
 - unreinforced concrete tunnel, structural design data, 16097
- Link, James M., differential thresholds for motion in periphery, 16145
- Linseed, *see* Flaxseed.
- Liquids:
- beryllium, viscosity, USSR study, 15941
 - kraft green liquor used to control deterioration of pulp chip, 15764
 - volatile organic, effect of adsorbed monomolecular films on their evaporation, 16317
- Liquors (liquid), *see* Liquids.
- Lists, *see* subjects of lists.
- Lithographic prints, *see* Lithographs.

- Lithographs, your Navy, from viewpoint of nation's finest artists, lithographic prints, announcement and order form, 16320
- Lithuania, scientific progress in Lithuanian SSR, USSR survey, 15933
- Lithuanian SSR, *see* Lithuania.
- Little, Elbert L., Jr., trees of Jost Van Dyke, British Virgin Islands, 15766
- Little Calumet River, and tributaries, Ill. and Ind., flood plain information, 15658
- Little River, flood plain information, 15656
- Little River County, Ark., community profile, 15576
- Load (mechanics):
effect of aluminum size and loading on burning rate of solid propellants under acceleration, experimental investigation, 16163
- Loans:
education, more opportunity, college degree, training for job, Office of Education sponsors programs that can assist you, 15636
emergency insured student act of 1969, report, 15368
emergency student loan act of 1969, report, 15249
Farmers Home Administration, Indian tribes and tribal corporations, provide loans for acquisition of lands, report, 15372
Federal emergency incentive payments to lenders under insured student loan program, authorize, report, 15368
FHA, for financing purchase of mobile homes, hearings, 15421
HUD grants and loans to meet insurability requirements of your property, 15836
savings and home financing, 1968, source book, 15706
see also Mortgages.
- Loats, Harry L., Jr., study of astronaut's ability to maintain life support systems and cabin habitability in weightless conditions, 16130
- Local government, *see* Government.
- Locomotion:
fish, eddy formation and boundary layer, USSR study, 15931
man's capability for self-locomotion on the moon—
detailed report, 16128
summary report, 16129
- Logan County, Ark., community profile, 15577
- Logan project, Logan River, Utah, development, owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718
- Logistics, Army logistician (periodical), 15033
- Logs, plant quarantine import requirements of foreign countries, 14977
- Long Beach, Calif., area wage survey, 16017
- Long Island, N.Y.:
hydrology and some effects of urbanization (series), 15806
precipitation regime, 15806
- Lonoke County, Ark., community profile, 15578
- Los Angeles, Calif., area wage survey, 16017
- Los Angeles County, Calif., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 15781
- Loudness, *see* Sound.
- Louisiana:
plant materials annual progress report, 16436
southern Coastal Plain and Blackbelt areas soil survey interpretations for woodlands, 16440
- Louisaunna, Cherie:
foreign trade regulations of—
Saudi Arabia, 15172
Turkey, 15169
- Lowenberg, A. L., study of factors which affect adequacy of high-strength low-alloy steel weldments for cargo ship hulls, 16400
- LSD, *see* Lysergic acid diethylamide.
- Lu, Chin H., basic studies of scale control, 15858
- Lucas, John T., Department of Defense market for wooden pallets, 15769
- Luffin, Linwood E., 50-man winter camp at Tuto, Greenland, 15651
- Luginbill, Philip, Jr., developing resistant plants, ideal method of controlling insects, 15006
- Lumber, plant quarantine import requirements of foreign countries, 14977
- Luria, S. M.:
relation of duction to dynamic stereoacuity, 16066
visual acuity under water without face mask, 16069
- Luxembourg, mutual defense assistance, agreement, 16479
- Lyndon B. Johnson National Historic Site, establish, report, 15365
- Lysergic acid diethylamide:
effect of LSD on central nervous system, USSR survey, 15905
LSD-25, layman's guide to pharmacology, physiology, psychology and sociology of LSD, factual account, 16117

M

- M.H.D., *see* Magnetohydrodynamics.
- MA SP series, 16048-50
- Maag, William L., statistical analysis of high-temperature creep-rate data for alloys of tantalum, molybdenum, and columbium, 16175
- McAndrew, Donald W., fall water supply for Nevada and Federal-State private cooperative snow surveys, 16422
- McBreen, Maureen, high school topic 1969-70, selected excerpts and references, 15224
- MacDonald, Gordon A., petrology of basalt cores from Midway Atoll, 15807
- McGuire, Marie C., address, Sept. 16, 1969, 15826
- Machine tools, looking ahead with machine tool industry (address), 15165
- Machinists, *see* Aviation machinists.
- McIntire-Stennis act, *see* Forests and forestry.
- McKenzie, Richard E., autonomic response to auditory stimulation during sleep, 15019
- McLellan, Robert, address, Sept. 27, 1969, 15177
- McMahill, Richard B., advisory opinion digests, 15738
- Macomber, William B., Jr., nomination, hearing, 15454
- McVehil, G. E., ground wind characteristics at Kennedy Space Center, 16134
- Maddocks, Rosalie F., recent Ostracodes of family Pontocypridae, chiefly from Indian Ocean, 16404
- Madison County, Ark., community profile, 15579
- Magnetic bottles, *see* Stellarators.
- Magnetic fields:
electron bombardment thruster operated with cusped magnetic field, 16188
steady-state condition, determination of plasma parameters produced by super high-frequency power, 15064
transistors performance in intense magnetic fields, 16177
- Magnetic measurements, quantum magnetometry, selections, USSR study, 15961
- Magnetohydrodynamics generators, Brayton- and Rankine-cycle magnetohydrodynamic spacepower generation systems, effects of electrothermal instabilities, 16195

INDEX

- Magnetohydrodynamics:
 Brayton-and Rankine-cycle magnetohydrodynamics space-power generation systems, effect of electrothermal instabilities, 16195
 MHD for central station power generation, plan for action, 16397
 Magnetometers, three-component marine, USSR study, 15944
 Mail matter:
 military assistance program address directory, 15531
 paudering advertisements, how you can curb, 16328
see also International postal service.
 Maine, census of business, 1967, selected services, area statistics, 15092
 Maintenance:
 building maintenance man, suggested guide for training course, 15634
 multicommand ADP systems, development and maintenance, Army pamphlet, 15046
 vehicle maintenance at non-personnel offices, facilities handbook, 16327
 Maldiv Islands, capsule facts for Armed Forces, 15031
 Mallards, habitat management, 16429
 Malnutrition, food gap, relationship with poverty in United States, 15477
 Mammals, Des Lacs National Wildlife Refuge, list, 16450
 Man:
 capability for self-locomotion on the moon—
 detailed report, 16128
 summary report, 16129
 human development, research progress, highlights, 16257
 intestinal parasites, morphology of diagnostic stages, 16355
 Management, *see* Administrative management—Forest management—Industrial management—Office management—Wildlife management.
 Manipulators, information robots and manipulators, USSR study, 15935
 Manpower:
 health manpower source book, 16256
 job restructuring, handbook, 16504
 nonprofessional, occupational licensing and supply of, 15999
 program, assessing the economic scene, 15994
 research monograph, 15999
 scientific activities of nonprofit institutions, 16281
 social and economic policy, 15998
 Manpower Administration, contract, audit guide, 15995
 Mansfield, Mike, Mexico-United States Inter-parliamentary Group, report, 15453
 Manuals, *see* names of departments, etc., issuing manuals—*also* subjects.
 Manufactures and manufacturers, *see* names of manufactured articles.
 Manuscripts, manuscript register series, 16043
 MAP (military assistance program), *see* Military aid.
 Mapes, B.E., sediment transport by streams in Walla Walla River basin, Washington and Oregon, July 1962-June 1965, 15817
 Maple:
 hard maple, effect of tension wood used for manufactured parts, 15763
 sugar maple—
 form recovery by understory, under uneven-aged management, 15756
 sap yield on flat land doubled by vacuum pumping, 15758
 Maps and charts, *see* names of localities—*also* subjects.
 Margin (securities) trading, *see* Securities.
 Marin County, Calif., Bolinas Lagoon, sedimentation and hydrology, preliminary studies, 15801
 Marine accidents, towing vessel safety and accident preventive recommendations, study, 16288
 Marine biofouling, *see* Fouling organisms.
 Marine Corps:
 concept of close air support, annotated bibliography, change sheets, 16044
 Fleet Marine Force manual FMFM series, 16041
 historical reference pamphlet, 16044-45
 history of operations in World War II, victory and occupation, 16042
 occupation of Japan, 16045
 occupational opportunities, 16046
 officer candidates, effect of protein dietary supplementation on physical performance, 16058
 Marine Corps Museum, manuscript register series, 16043
 Marine fouling organisms, *see* Fouling organisms.
 Marine science, *see* Oceanography.
 Marines, *see* Marine Corps.
 Marion County, Ark., community profile, 15580
 Maritime Administration:
 annual report, 16047
 SP series, 16048-50
 Maritime industry, *see* Merchant marine.
 Markets and marketing:
 market surveys and industry reports issued by United Nations Economic Commission for Africa, supplement, 15170
 marketing research reports, 14997
 world is your market (address), 15891
see also names or classes of commodities, etc., marketed.
 Marriage, statistical studies, bibliography, 16352
 Married persons, *see* Husbands and wives.
 Mars (planet):
 atmosphere, density, analysis of gamma ray backscatter technique for direct measurement, 16180
 Mars entry capsules, synthesis of optimum structural designs for conical and tension shell, 16121
 Mars atmosphere, *see* Atmosphere.
 Marshals, services provided, need to revise fees, GAO report, 15785
 Martens, David G., flooring costs, 15771
 Martin, Graham A., nomination, hearing, 15454
 Martin, John M., mobile homes and parks, bibliography, 16401
 Martin, Preston, address, Oct. 13, 1969, 15704
 Martinez-O'Ferrall, Jose A., pharmacodynamics of radioprotective drug, 2-(1-decylamino) ethanethiosulfuric acid, 15020
 Maryland, real property acquisition for highway purposes, reports, 15245, 15413
 Masks, visual acuity under water without a face mask, 16069
 Massachusetts Kidney Disease Planning Project, report, 16353
 Master cross reference list, 15523
 Masterson, James R., writings on American history, 15028
 Masts and rigging, rigging cargo gear, 16007
 Material handling:
 Army technical manual, change, 15053
 unit-load explosion in food industry, study of several systems, 15768
 Materials:
 high temperature chemistry and physics, bibliography, 16226
 high temperature materials, ARPA-NBS program of research, 16228
 standard reference materials, National Bureau of Standards, catalog and price list, quarterly insert sheets, 16224

- Mathai, H. F., floods of June 1965 in South Platte River basin, Colo., 15816
- Mathematical models, *see* Mathematics.
- Mathematics:
- cybernetics, regulation theory and mathematics, 15985
 - mathematical geodesy, 15672
 - mathematical model of nerve cell, standard neuron, USSR study, 15989
 - probability density functions of n vectors added with random direction, 16316
 - see also* Vectors (mathematics).
- Mathieu functions, Mathieu's equations for complex parameters, tables of characteristic values, 15015
- Matrix theory, application for establishing independent coordinates for complex dynamical systems with constraints, 16206
- Matter, particulate, air quality criteria, 16356
- Mattresses, plastic mattress handles from Canada, determination of no injury to U.S. industry, 16493
- Mayer, Martin, American mood in foreign affairs, U.S. National Commission for UNESCO, memo, special issue, report, 16483
- Meany, George, testimony, 15451
- Measurements, methods for semiconductor materials, process control and devices, 16229
- see also* subject of measurement.
- Meat, *see* Packing industry.
- Meat packing plants, *see* Packing industry.
- Mechanical and physical hazard series, 16007
- Mechanical behavior, of tantalum-base T-111 alloy at elevated temperature, 16143
- Mechanics (science):
- complex dynamical systems with constraints, new matrix theorem and its application for establishing independent coordinates, 16206
- Mechanization, potential mechanization in flue-cured tobacco industry, with emphasis on human adjustment, 15618
- Medals:
- commemorative—
 - 50th anniversary, U.S. Diplomatic Courier Service, law, 15196
 - gold, strike in honor of American astronauts, report, 15337
- Medicaid, *see* Medical assistance—Public assistance.
- Medical assistance:
- financed under public assistance titles of social security act, 16235
 - medicaid, State obligations, law, 15204
- Medical care:
- emergency medical services, 16243
 - human needs, provide for poor, national nutrition survey, hearings, 15478
- medicare—
- blood transfusions, insurance coverage, 16421
 - first 3 years, medical care price changes, 16416
 - medical insurance, \$50 annual deductible, 16420
 - program—
 - costly problems, hearings, 15432
 - current data (paper), 16412
 - price changes, medicare's first 3 years, 16416
- Veterans Administration program, hearings, 15476
- see also* Health insurance.
- Medical Department, Navy, manual, change, 16056
- Medical facilities, *see* Hospitals.
- Medical Foundation of Bellaire, Ohio, neighborhood health services programs, grants awarded, report, 15296
- Medical insurance, *see* Health insurance.
- Medical libraries, *see* Libraries.
- Medical occupations, occupational analysis of computers in medical sciences, 16001
- Medical officers, submarine service, back ground and motivational characteristics of candidates, 16068
- Medical service, *see* Medical care.
- Medical supplies, stored for national emergencies, transfer to another Federal agency before shelf life expires, report, 15402
- Medicare, *see* Medical care.
- Medicine:
- Academy of Medical Sciences, USSR, roster of nominees for membership, 15903
 - bulletin of experimental biology and medicine (USSR periodical), translations, 15923
 - computation engineering, USSR study, 15921
 - medical research and scientific work, USSR studies, 15951
 - military, crisis fleeing, India and Burma in World War II, original reports, 15061
 - occupational analysis of computers in medical science, 16001
 - School of Aerospace Medicine, technical reports, 15017-21
 - USSR medical conferences, 15910
 - see also* Medical care.
- Mediterranean countries, United States Army operations in World War II, Salerno to Cassino, 16071
- Mediterranean Sea, lights and fog signals, list, change, 16303
- Meiners, Alfred F., investigation of light-catalyzed chlorine oxidation for treatment of wastewater, 15744
- Membership directory, President's Committee on Employment of the Handicapped, 16333
- Membranes:
- cellulose acetate—
 - and ultrathin films for reverse osmosis characterization, 15860
 - methods to retard compaction in reverse osmosis desalination, study, 15861
 - membrane cells, new design concept for reverse osmosis, 15854
 - new membrane candidates for application in reverse osmosis, synthesis and evaluation, 15857
 - reverse osmosis membrane regeneration, 15864
- Memorial services, Eisenhower, Dwight D., eulogies, print as House document, report, 15286
- Mendeleyev, D. I., his periodic law and electronic structure of atoms, USSR study, 15960
- Mendocino, Lake, part of Russian River project, Call., general information, 15669
- Menis, Oscar, Analytical Coordination Chemistry Section, July 1968-June 1969, summary of activities, 16232
- Mental health:
- applied research grants, National Institute of Mental Health, Public Health Service, 14971
 - community centers, comprehensive, annotated bibliography, 16338
 - opportunities for nursing careers, 16363
 - programs for the deaf and the hearing impaired, 16354
 - volunteer services in mental health, annotated bibliography, 16379
- Mental health centers, *see* Mental institutions.
- Mental institutions, community mental health centers act, amend, hearings, 15471

INDEX

- Mental retardation, grants awarded by Health, Education and Welfare Dept., list, construction, training and other, 15820
- Mentally ill, mentally restored, selective placement in Federal civil service employment, handbook, 15142
- Mentally retarded:
selective placement in Federal civil service employment, handbook, 15142
university facilities for diagnosis treatment, etc., construction, Public Health Service, grants and awards, 16264
- Menzle, Calvin M., metabolism of pesticides, 16458
- Mercer County, N.J., Beden Brook basin floods, extent and frequency, 15797
- Merchant marine:
act of 1936, amend, report, 15292
American Merchant Marine Conference (remarks), 15715
crisis and opportunity (remarks), 16049
policy of Commerce Department towards merchant marine (remarks), 15173
who needs ships? you do! (remarks), 15716
- Merchant Marine and Fisheries Committee, House, reports, 15230, 15291-292
- Merchant ships, *see* Ships.
- Mercury, precision of mercury differential thermometers in heat-of-hydration test, 15665
- Mersman, William A., unified treatment of lunar theory and artificial satellite theory, 16193
- Mertins, Paul F., financial statistics of institutions of higher education, property, 1966-67, 15631
- Mesa Verde National Park, environment, Wetherill Mesa studies, 16267
- Meta-benzenedisulfonic acid, *see* Benzenedisulfonic acid.
- Metabolism, pesticides, review, 16458
- Metallurgy, nuclear, reprocessing of nuclear fuels, symposium, 15075
- Metals:
determine if correlation exists between fatigue life and capability of metal to absorb or retain inert gas, study, 15057
minor, minerals yearbook chapter, 16090
Soviet journal, selections, 15982
see also names of metals.
- Metaphors, hygienic significance as atmospheric pollutant, USSR study, 15904
- Meteoroids, *see* Meteors.
- Meteorology, *see* Weather.
- Meteors, meteoroid environments determined from photographic meteor data, 16205
- Metric system, practicability of increasing use in United States, Secretary of Commerce to conduct investigation, authorize appropriations, report, 15294
- Metropolitan areas, *see* Cities and towns.
- Metzbowser, E. A., computer-plotted stereographic projections, 16315
- Mexico, mineral industry, minerals yearbook chapter, 16086
- Mexico-United States Interparliamentary Group, 9th meeting, Senate delegation report, 15453
- Meyer, Francis G., nomination, hearing, 15454
- MHD, *see* Magnetohydrodynamics.
- Mica, minerals yearbook chapter, 16080
- Michalski, Bernadette, mineral industry of Czechoslovakia, 16082
- Michigan, plane coordinate intersection tables, 15152
- Microchemical Analysis Section, summary of activities, 16233
- Microcontrol and diagnosis of malfunctions in digital computers, 15978
- Microfilms, National Archives publications, pamphlets accompanying, 16214-221
- Micro-organisms, wood chip piles, new method for appraising decay capabilities, 15762
- Microphones, microphones and microphone elements, Federal item identification guide, 15509
- Microwave equipment, avalanche diodes and their application, USSR, 15924
- Microwaves, backward diodes in indium arsenide, fabrication and characteristics, 16164
- Midway Islands:
geology of Midway area, Hawaiian Islands (series), 15807
petrology of basalt cores, 15807
- Migrants, population trends, hearings, 15309
- Migration, assistance, appropriations, 1970, hearings, 15299
see also Immigration and emigration.
- Migratory-bird-hunting stamps, duck stamp data, information for stamp collectors and conservationists, 16442
- Military aid:
agreement with Luxembourg, 16479
foreign assistance act of 1969, hearings, 15316, 15452
foreign assistance appropriations, 1970, hearings, 15299
military assistance program address directory, 15531
- Military art and science, strategy and science toward a national security policy for the 1970's, hearings, print as House document, report, 15287
- Military assistance, *see* Military aid.
- Military communications, defense communications system engineering-installation standards manual, 15491
- Military construction, *see* Installations (military).
- Military equipment, *see* Military supplies.
- Military history:
Marine Corps—
historical reference pamphlet, 16044-45
World War II operations, victory and occupation, 16042
- Military History, Office of Chief of, Army, publications, list, 16070
- Military information, amphibious reconnaissance, Fleet Marine Force manual, 16041
- Military medicine, *see* Medicine.
- Military occupation, United States Marines in occupation of Japan, 16045
- Military personnel, *see* Army Department.
- Military posture, hearings, 15302
- Military research, research and development, appropriations, 1970, authorization, report, 15295
- Military supplies:
defense disposal manual, change, 15494
- MILSTRIP, military standard requisitioning and issue procedures, supplement, 15531
- preservation, packaging, packing, DSA manual, 15493
- storage manual, Air Force manual, 15009
- supply and service reference data, Army field manual, 15042
- system safety program for systems and associated subsystems and equipment requirements for military standard, 15527
- Miller, J. F., precipitation regime of Long Island, N.Y., 15806
- Miller County, Ark., community profile, 15581
- Mills, Willard B., floods of Apr. 28, 1966 in northern part of Dallas, Tex., 15818
- MILSTRIP (Military standard requisitioning and issue procedures), *see* Military supplies.
- Milton Mine, Organ Pipe Cactus National Monument, historical and architectural data, 16275
- Milwaukee, Wis., aircraft accident, 16283
- Minard, James P., geology of Sandy Hook quadrangle in Monmouth County, N.J., 15794

- Mine pillars, model rock, increasing end constraint on compressive strength, effect, 16098
- Mine props, hydraulic-powered roof supports, specifications, 16079
- Mine safety, *see* Safety of life.
- Mineral lands, federally owned locatable minerals, problems relating to development, hearing, 15462
- Minerals:
- industry, minerals yearbook chapter—
 - Central American areas, 16081
 - China, mainland, 16085
 - Czechoslovakia, 16082
 - Ghana, 16083
 - Israel, 16084
 - Mexico, 16086
 - South Korea, 16087
 - Tunisia, 16088
 - Zambia, 16089
 - mining and minerals policy act of 1969, report, 15369
 - national mining and minerals policy, establish, report, 15369
- Miners, *see* Coal mines and mining.
- Mines and mining:
- hydraulic-powered roof supports, specifications, 16079
 - industry employees, coverage and benefits under State workmen's compensation laws, encourage improvement, hearings, 15311
 - mining and minerals policy act of 1969, report, 15369
 - national mining and minerals policy, establish, report, 15369
 - see also* names of mines.
- Mines Bureau:
- appropriations, 1970, report, 15398
 - information circulars, 16078-79
 - report of investigations, 16097-16106
- Mining engineering, increasing end constraint on compressive strength of model rock pillars, effect, 16098
- Minorities, journey into business (address), 15160
- Minority Business Enterprise Office, opportunities, increase (address), 15160
- Mirandolle, J. F., epilepsy abstracts, 16254
- Miscellaneous bills, *see* Bills (congressional).
- Miscellaneous publications, *see* names of departments, etc., issuing publications.
- Missiles:
- military procurement appropriations, 1970—
 - hearings, 15302
 - report, 15295
 - SAFEGUARD antiballistic missile—
 - program, rotation of key military personnel assigned to agencies of Army Department, GAO report, 15790
 - system, construction appropriations, 1970, hearings, 15301
- Mission report MR series, 16119
- Mississippi:
- Federal outlays, report of Federal Government's impact by State and county, 15614
 - plant materials annual progress report, 16437
- Mississippi County, Ark., community profile, 15582
- Mississippi River and Valley, Delta area, cotton farms, commercial, costs and returns, 15620
- Mississippian period, Girty's invertebrate fossils from Fayetteville shale of Arkansas and Oklahoma, revision, 15803
- Missouri, census of business, 1967, retail trade, area statistics, 15089
- Missouri Basin Inter-Agency Committee:
- directory, 1970 fiscal year, 16111
 - minutes, 157th meeting, 16112
- Missouri River and Valley:
- Missouri River basin, progress report, 15850
 - streamflow characteristics in western Dakota tributaries, 16113
- Missouri River Basin project, Corn Creek, Front Range, and Arnel units, water resource development proposals, Interior Dept. to investigate feasibility, report, 15261
- Mitchell, George W.:
- remarks—
 - Sept. 10, 1969, 15728
 - Oct. 2, 1969, 15726
- Mobile home courts, *see* Trailer parks.
- Mobile homes, *see* Trailers.
- Modelling the mechanism of generation of respiratory rate, USSR study, 15962
- Moisture, stratospheric temperature and moisture profiles, inference from observations of infrared horizon, 16135
- Molecules, molecular vibration spectra from field emission energy distributions, 16174
- Molybdenum:
- alloys, statistical analysis of high temperature creep-rate data, 16175
 - occurrence and distribution, in surface water of Colorado, 15814
- Money:
- movement of money, everybody's problem, 15726
 - new frontier for monetarists (remarks), 15727
 - new look at monetary policy, instruments (remarks), 15728
 - United States monetary policy in 1969, assessment (paper), 15734
 - see also* Inflation (finance).
- Monitors, U.S. Navy, 1861-1937, bibliography, 16306
- Monmouth County, N.J., Sandy Hook quadrangle, geology, 15794
- Monographs, *see* names of departments, etc., issuing monographs.
- Monomolecular films, adsorbed, effect on evaporation of volatile organic liquids, 16317
- Monroe County, Ark., community profile, 15583
- Montagna, Dominic, refining zinc-base die-cast scrap using low-cost fluxes, 16106
- Montana:
- census of business, 1967—
 - selected services, area statistics, 15093
 - wholesale trade, area statistics, 15103
 - real property, comprising Veterans Administration Center, Fort Harrison, cede concurrent jurisdiction with United States, law, 15194
- Montgomery County, Ark., community profile, 15584
- Moon:
- lunar theory and artificial satellite theory, unified treatment, 16193
 - man's capability for self-locomotion on the moon—
 - detailed report, 16128
 - summary report, 16129
 - steps to the moon, history, flight description, etc., 15808
- Moore, Charlotte E., bibliography on analyses of optical atomic spectra, 16225
- Moore, Clarence A., flaxseed production and use, past trends and future prospects, 15622
- Moore, Donald L., kitchen planning guide, 15709
- Moore, James G., October 1963 eruption of Kilauea Volcano, Hawaii, 15804
- Moreland, Joe A., study of deep aquifers underlying coastal Orange County, Calif., 15809
- Morning, John L., chromium, 16073
- Morocco, economic trends and their implications for United States, 15881

INDEX

- Morphology:**
 comparative morphology of hematopoietic neoplasms, 16259
 diagnostic stages of intestinal parasites of man, 16355
- Morrow, Robert R.**, vacuum pumping doubles maple sap yield on flat land, 15758
- Mortgage Insurance:**
 FHLA—
 homes, regulations, amendments, 15707
 programs, extend, reports, 15297, 15371
- Mortgages:**
 housing credit, brand new ball game, the 70's (address), 15704
 mortgage credit, make more available to homebuyers during periods of tight money, hearings, 15419
 veterans—
 home loans, authority to set interest rates, extend, reports, 15268, 15284
- Mothers, widowed, employment, facts, 16417**
- Motion:**
 differential thresholds for motion in periphery, 16145
 motion of bats toward plane targets and nature of changes of echolocative signals in process of target selection and recognition, USSR study, 15902
 planetary effects in motion of natural satellites, 16153
 single bubbles under low gravitational conditions, 16196
 wave motion problems, scientists to investigate, USSR study, 15930
- Motion pictures, conservation, 1969-70 listings of conservation films and related natural resource film subjects, 15849**
- Motivation (psychology):**
 medical officer candidates for submarine service, 16068
- Motor Carrier Safety Bureau, bulletin, on guard (periodical), 16116**
- Motor carriers, accounts, uniform system, 15896**
see also Motor vehicle accidents.
- Motor fuel, taxation, user charges, increase, hearings, 15337**
- Motor vehicle accidents:**
 crash survivability, 16244
 data contribution to countermeasures, 16249
 motor carrier accident investigation reports, 16114-115
 relationships between accidents and geometric and traffic characteristics of interstate system, analysis and modeling, 16380
 speed-related accident counter-measures and their priorities, 16245
- Motor vehicle operators:**
 driver behavior, 16246
 read before driving, safety driving practices, booklet, 16251
- Motor vehicles:**
 combat tracked vehicles, military procurement appropriations, 1970, authorization, report, 15295
 motor vehicle safety standards, planning for quality (remarks), 16241
 national traffic and motor vehicle safety act of 1966—
 amend definition of motor vehicle equipment—
 hearings, 15427
 report, 15253
 amend to authorize appropriations, 1970-71—
 hearings, 15427
 report, 15253
 amend to require notification to purchasers of defective tires—
 hearings, 15427
 report, 15253
- Motor vehicles—Continued**
 safety literature, announcement of recent acquisitions, subject category index, 16240
 safety standards, compliance enforcement, 16248
 tracked combat vehicles, military procurement appropriations, 1970, hearings, 15302
 weight and width limitations on interstate highway system, raise limits, hearings, 15326
- Motortrucks, lift trucks, fork, platform, and pallet, Federal item identification guide, change, 15508**
- Mourning doves, habitat management, 16430**
- MP series, 15837-838**
- Multistage flash distillation, *see* Flash distillation.**
- Multi-troubled jobseeker, case of jobless worker with convulsive disorder, 16000**
- Munford, J. A., evaluation of meta-benzenedisulfonic acid as stress-reducing additive in Watts nickel electroplating bath, 16152**
- Murphy, Robert T.:**
 addresses, etc.—
 Sept. 18, 1969, 15130
 Oct. 16, 1969, 15128
- Musen, Peter, planetary effects in motion of natural satellites, 16153**
- Museums:**
 public—
 definition, clarify, report, 15401
 permit donations of surplus property, report, 15401
- Music:**
 catalog of copyright entries, 15487
 addenda, 15485
 Library of Congress catalog, 16038
- Muskegon, Mich., area wage survey, 16019**
- Muskegon Heights, Mich., area wage survey, 16019**
- Mutual assistance, *see* Military aid.**
- Mutual defense, *see* Military aid.**
- Mutter, H. B., remarks, Sept. 30, 1969, 15714**
- Myers, Mardy, major statistical series of Department of Agriculture, how they are constructed and used, gross and net farm income, 14987**
- Myers, Robert J., disability incidence rates under OASDI system for disability onsets occurring in 1956-64, 16409**

N

- Nails and spikes, nails, Federal item identification guide, change, 15510**
- NASA, *see* National Aeronautics and Space Administration.**
- National Adult-Youth Communications Week, designate, report, 15373**
- National Advisory Council on Vocational Education, annual report, 15627**
- National Aeronautics and Space Administration:**
 contractor report CR (series), 16120-146
 incentive contracting guide, 15495
 mission report MR series, 16119
 NASA scientific and technical information system, and how to use it, 16147
 positions in aerospace technology, 15154
 SP series, 16148-151
 space flight investigations, opportunities for participation, 16212
 technical notes, 16152-202
 technical reports, 16203-206
 technical translations, 16207-210
- National Air Pollution Control Administration publications, APTD series, 16356-361**

- National Air Surveillance Networks:
continuous air monitoring projects—
1965 data tabulations and summaries,
16358
1967 data tabulations and summaries—
Chicago, 16359
St. Louis, 16360
Washington, D.C., 16361
- National Archery Week, designate, law,
15203
- National Archives:
general information, 16213
microfilm publications, pamphlet accom-
panying, 16214-221
see also Records.
- National Archives and Records Service, gen-
eral information leaflets, 16213
- National Aviation Facilities Experiment
Center, Atlantic City, N.J., report NA
series, 15692-694
- National Bureau of Standards:
ARPA-NBS program of research on high
temperature materials, 16228
Microchemical Analysis Section, sum-
mary of activities, 16233
miscellaneous publications, 16226
special publications, 16225-226
standard reference materials, catalog and
price list, quarterly insert sheets, 16224
technical notes, 16227-234
- National Cancer Institute, monograph,
16258-259
- National Capital Planning Commission, ap-
propriations, 1970, report, 15398
- National Center on Educational Media and
Materials for the Handicapped:
establish—
law, 15209
report, 15231
- National Commission on Product Safety, ex-
tend, law, 15199
- National Communicable Disease Center, At-
lanta, Ga., salmonella surveillance, annual
summary, 16362
- National Council on Indian Opportunity, ap-
propriations, 1970, report, 15398
- National Council on Marine Resources and
Engineering Development, 1970, report,
15398
- National Credit Union Administration, cre-
ate, hearing, 15420
- National defense:
NATO and defense of Europe—
discussion guide, 16471
United States foreign policy issues,
16470
Soviet budget provides for research and
defense, 15916
student loan program, report, 15368
- National electric rate book, 15721-724
- National Environmental Satellite Center,
ESSA direct transmission system users
guide, 15671
- National forests:
California, 15753
in your service, the work of Uncle Sam's
forest rangers, 14988
- National Foundation on the Arts and the
Humanities, appropriations, 1970, report,
15398
- National Gallery of Art, appropriations,
1970, report, 15398
- National Guard Bureau, pamphlets, 16238
- National health survey, vital and health
statistics, 16375-377
- National Highway Safety Bureau:
contractors report, executive summaries,
16239
priorities seminar, proceedings, 16242-250
- National Institute of Allergy and Infectious
Diseases, transplantation immunology re-
search program, 16266
- National Institute of Dental Research, di-
rectory of U.S. facilities providing cleft
lip and cleft palate services, 16260
- National Institute of Mental Health, applied
research grants, 14971
- National Institute of Neurological Diseases
and Stroke, mission & publications for
public, 16261
- National Institutes of Health:
career opportunities, 16252
fellowships—
postdoctoral research, 16262
predoctoral research, 16263
research fellowships, information and eli-
gibility criteria, 16349
- National Institutional Science Council, es-
tablish, report, 15274
- National Mediation Board, member, nomi-
nation of George S. Ives, hearing, 15474
- National Memorial Stadium Commission,
abolish, report, 15410
- National monuments and memorials, *see*
names of monuments or memorials.
- National Oceanographic Data Center, July 1,
1968-June 30, 1969, highlights, 16295
- National Oceanographic Instrumentation
Center, general information, 16294
- National Park Service:
appropriations, 1970, report, 15398
archeological research service, 16267
- National parks, wildlife management in na-
tional parks, 16279
- National program of educational labora-
tories, 15637
- National Science Foundation, administer
national institutional grants program, re-
port, 15274
- National security, strategy and science, to-
ward a national security policy for the
1970's, hearings, print as House document,
report, 15287
- National service life insurance, *see* Life in-
surance.
- National union catalog, Library of Congress,
register of additional locations, 16039
- National Water Commission, appropriations,
1970, report, 15298
- NATO, *see* North Atlantic Treaty Organiza-
tion.
- Natural resources:
America's department of natural resources,
Interior Department, 15848
conservation bulletins, 15848
conservation, 1969-70 listings of conser-
vation films and related natural resource
film subjects, 15849
depletable resources, tax reform hearings,
summary of testimony, 15343
land and water conservation fund act,
amend, report, 15374
resource bulletins, 15776
resource publications (series), 16456
water resources functions and programs
of Corps of Engineers, 15664
- Naturalization, candidates, English and Fed-
eral Government, Federal textbook on
citizenship, 15846
- Naumann, Robert J., calibration of Pega-
sus and Explorer XXIII detector panels,
16204
- Naval Aerospace Medical Institute, reports,
1964-1968, annotated bibliography, 16055
- Naval education, rate training manuals,
16310, 16312-313
- Naval Facilities Engineering Command, de-
sign manuals, 16291
- Naval history:
bibliography, 16307
United States Navy, highlights, 16308
- Naval Medical Field Research Laboratory,
reports, 16057-58
- Naval Oceanographic Office:
annual report, 16296
informal report III series, 16293
publications series, 16297-303
- Naval Overseas Transportation Service,
World War I, history, 16305
- Naval Research Laboratory, report series,
16314-317

INDEX

- Naval Submarine Medical Center :
 memorandum reports, 16061-65
 reports, 16066-69
- Naval vessels, *see* Ships—Warships.
- Nayla, *see* Bromeliaceae.
- Navigation :
 American practical navigator, tables, 16297
- Arkansas River, Webbers Falls Lock and Dam, hydraulic model investigation, 15668
- space, approximation to statistics of mid-course velocity corrections, 16159
- Navy :
 career planner, occupational handbook, manual for civilian guidance counselors, etc., 16311
- hospital corpsmen, predicting academic performance, 16060
- junior nuclear qualified submarine officers, special pay, provide, hearing, 15417
- monitors of U.S. Navy, 1861-1937, 16306
- rate training manuals, 16310, 16312-313
- United States, historical account, 16308
- your Navy from viewpoint of nation's finest artists, lithographic prints, announcement and order form, 16320
- Navy Department, Secretary, letters sent to officers, 1798-1868, pamphlet to accompany microcopy, 16214
- Navy Medical Neuropsychiatric Research Unit, San Diego, Calif., reports, 16059-60
- NBS, *see* National Bureau of Standards.
- Nebraska :
 Federal outlays, report of Federal Government's impact by State and county, 15615
- Upper Niobrara River compact, congressional consent, law, 15200
- Nehmer, Stanley, remarks, Sept. 16, 1969, 15166
- Neighborhood Youth Corps :
 Detroit, Mich., program, effectiveness and administrative efficiency, GAO report, 15780
- Los Angeles County, Calif., effectiveness and administrative efficiency, GAO report, 15781
- Nelson, Dawn D., school enrollment, Oct. 1968, and 1967, 15114
- Nelson, James R., all weather landing development tests, 16487
- Neoplasms, *see* Tumors.
- Nepheline syenite, minerals yearbook chapter, 16075
- Nerves, nerve cell, standard neuron, mathematical model, USSR study, 15989
- Nervous system :
 central, effect of LSD, USSR survey, 15905
- some distinctions of higher nervous activity in Black Sea dolphin (*Tursiops truncatus*), USSR study, 15927
- Netherlands :
 double taxation, convention, text, etc., 15354
- income tax convention, text, etc., 15354
- plant quarantine import requirements, 14978
- Netterrom, Ralph W., rigging cargo gear, 16007
- Neugebauer, G., two-micron sky survey, preliminary catalog, 16150
- Neuron, *see* Nerves.
- Nevada :
 census of business, 1967, wholesale trade, area statistics, 15104
- water supply, fall summary, 16422
- Nevada County, Ark., community profile, 15585
- New Castle County, Del., community profile, 15586
- New England, yellow birch, rates of value increase, 15767
- New frontier for monetarists, 15727
- New Hampshire, census of business, 1967, wholesale trade, area statistics, 15105
- New Jersey :
 egg-producing farms, commercial, costs and returns, 15619
- electric rate book, 15723
- New Mexico :
 census of business, 1967—
 selected services, area statistics, 15094
- wholesale trade, area statistics, 15106
- New Orleans, La., passenger lists of vessels arriving, quarterly abstracts, pamphlet to accompany microcopy, 16218
- New York City :
 architecture, survey, 16274
- employment and unemployment, facts, 16029
- Newton County, Ark., community profile, 15587
- Newtonian fluid, *see* Fluids.
- NGB, *see* National Guard Bureau.
- Nichols, Lester D., analytical and experimental studies of MHD generator cathodes emitting in spot mode, 16169
- Nickel :
 dispersion-strengthened, produced from ultrafine comminuted powders, 16172
- minerals yearbook chapter, 16091
- Watts nickel electroplating bath, metabenzenedisulfonic acid as stress-reducing additive, evaluation, 16152
- Niedra, Janis M., transformer of closely spaced pulsed waveforms having nonzero average value, 16200
- Niger, background notes, 16461
- Nigeria :
 economic trends and their implications for United States, 15885
- surface water resources of Yobe River system, 1963-68, 15810
- NIH, *see* National Institutes of Health.
- Niigata, Japan, damage due to Niigata earthquake, report, 15070
- Niobium :
 columbium alloys, statistical analysis of high temperature creep-rate data, 16175
- minerals yearbook chapter, 16074
- Niobrara River, Upper, compact, congressional consent, law, 15200
- Nitinol, characterization study, 16140
- Nitrogen, thermodynamic properties, and real-gas effects in critical flow through nozzles, errata, 16149
- Nobel, Joel J., portable clinical suction device for use in hyperbaric chambers, 16064
- Noble gases, determine if correlation exists between metal fatigue life and capability of metal to absorb or retain inert gas, study, 15057
- Noise, *see* Sonic boom.
- Noise suppressors, acoustical absorption properties of wood-base panel materials, 15761
- Nominations, Academy of Medical Sciences, USSR, roster of nominees for membership, 15903
- see also* names of persons.
- Nonmetals, structural shapes, nonmetallic, Federal item identification guide, 15517
- Nonprofit organizations :
 nonprofit corporations, standards for granting Federal charters, 15469
- scientific activities, 16281
- scientific-research institutes and their work, USSR study, 15956
- Norfolk and Western Ry., accident, report, 15725
- Norfolk Island, telecommunication facility, to study ionospheric propagation in relation to long range radio paths, agreement with Australia, 16472
- North America :
 Atlantic Coast, tidal current tables, 15153
- east coast, lights and fog signals, list, change, 16301

North Atlantic Treaty Organization:
NATO and defense of Europe—
discussion guide, 16471
United States foreign policy: issues,
16470
North Carolina, landings, fish and shellfish,
15182
North Central Airlines, Inc., aircraft ac-
cident, 16283
North Dakota:
census of business, 1967, wholesale trade,
area statistics, 15107
Missouri River basin streamflow character-
istics in western Dakota tributaries,
16113
Northam, G. Burton, experimental investiga-
tion of effect of aluminum size and load-
ing on burning rate of solid propellants
under acceleration, 16163
Northeast (U.S.):
pulpwood production, 15776
Northwest (U.S.):
role of nuclear power in Northwest (re-
marks), 15084
Norton, Allen C., dorsal column system of
spinal cord, its anatomy, etc., 16253
Nozzles:
axial location of nozzle exit and jet veloc-
ity, effect on performance of twin-jet
afterbody model, 16161
hypersonic turbulent nozzle-wall bound-
ary layers, comparison of prediction
methods and studies of relaxation,
16181
real-gas effects in critical flow through
nozzles and thermodynamic properties
of nitrogen and helium, errata, 16149
Nuclear fuel, *see* Fuel.
Nuclear power, *see* Atomic energy.
Nuclear radiation, *see* Radiation.
Nuclear reactors, *see* Reactors (atomic).
Numerical calculations, thermal pollution
effects on river ice conditions, 15649
Nurse Corps, Army, career opportunities,
the bright adventure of Army nursing,
15060
Nurses and nursing:
aerospace nurse date book, 15008
careers in mental health, 16363
educational opportunities and financial
assistance, 15041
professional nurses, traineeship program,
PHS short-term training courses, 16265
see also Nurse Corps, Army.
Nursing homes:
care of veterans, extend, hearings, 15476
Veterans Administration care program,
need for improvements in administra-
tion, GAO report, 15783
Nute, Cyril H.:
set of programs for computing multiple
correlations and related statistics, 16059
two analysis-of-variance programs for dis-
proportionate cell frequencies, 16059
Nutrition:
Follow Through's nutrition program (ad-
dress), 15632
nutrition and human needs, national sur-
vey, hearings, 15478
Nutrition and Human Needs, Select Com-
mittee on, Senate:
committee print, 15477
hearings, 15478
Nyctitropic movement as false wilt symptom
of cotton, 14974

O

O.A.S.D.I., *see* Old age, survivors, and dis-
ability insurance.
Oak, upland stands of Kentucky, decay,
15773
Oak Ridge National Laboratory, desalina-
tion research, 15862
OAR, *see* Aerospace Research Office.

OASDI, *see* Old age, survivors, and disability
insurance.
O'Brien, Harold W., attenuation of visible
light by falling snow, 15038
OBR series, 15167-172
Obscenity and Pornography Commission,
appropriations, 1970, report, 15281
Observers quarterly, 16527
Occupation (military), *see* Military occu-
pation.
Occupational health, *see* Health.
Occupational Safety and Health Bureau, a
look at Bureau of Occupational Safety and
Health, general information, 16351
Occupations:
Air Force, occupational handbook for air-
men, manual for guidance counselors,
15023
career opportunities—
Army Nurse Corps, the bright adven-
ture of Army nursing, 15060
extension agent, 14998
Internal Revenue Service, revenue
agent, 15872-873
civilian-Army occupational relationships,
personnel selection and classification
tables, 15050
health, manpower supply and educational
statistics, health manpower source book,
16256
Marine Corps, occupational opportunities,
16046
Navy career planner, handbook and man-
ual for civilian guidance counselors,
etc., 16311
occupational guide, 16002
occupational licensing and supply of non-
professional manpower, 15999
occupational safety aid, OSA LS series,
16010
optometry, occupational guide, 16002
skilled craft, apprentice training, sure
way, 15029
trades, journeyman and junior levels, ex-
amination announcement, 15135
see also names of occupations, industries,
etc.
Occupied territory, *see* Military occupation.
Ocean:
bottom reflections, sound generation by
surface waves and velocity of sound
in water as function of depth, U.S.S.R.
study, 15929
physics of atmosphere and ocean, U.S.S.R.
studies, 15945
physics of sound in the sea, 16318
space, basic principles governing activities
of nations, place before United Nations
Committee on Peaceful Uses of the Sea-
bed and Ocean Floor, expressing sense
of Senate, hearings, 15450
Ocean cruises, *see* Cruises.
Ocean stations, *see* Weather stations.
Oceanica, agricultural data book, 15623
Oceanography:
Grand Banks region and Labrador Sea in
1966, report, 15154
Naval Oceanographic Office, annual re-
port, 16296
North Atlantic Ocean Stations—
Bravo, 15155
Echo, 15156
oceanographic reports, 15154-156
three-component marine magnetometer,
U.S.S.R. study, 15944
university curriculums in marine sciences
and related fields, 16237
O'Connor, Charles M., industry wage sur-
vey, footwear, 16024
OEDP (Overall Economic Development pro-
gram), *see* Redevelopment (city planning,
etc.).
Oehman, Waldo I., bodies of revolution hav-
ing minimum total drag in hypersonic
flow, 16184
OET, *see* Emergency Transportation Office.

INDEX

- Office furniture and equipment, space planning and layout, guide, 16334
- Office management, forms management, records management handbook, 16222
- Officers, *see* names of services to which officers belong.
- Offices, space planning and layout, guide, 16334
- Oglesbee, John W., devices for producing both hard copy alphanumeric listings and digital data plots, 16201
- Oil and Gas Office, appropriations, 1970, report, 15398
- Oklahoma:
- Girty's invertebrate fossils from Fayetteville shale (Mississippian), revision, 15803
 - southern Coastal Plain and Blackbelt areas soil survey interpretations for woodlands, 16440
- Oklahoma City, Okla., interstate route 40, development of multiple use facilities on highway right-of-way, 16384
- Oklaloosa County Board of Public Information, real property conveyance to, hearings, 15303
- Old age benefits, *see* Old age, survivors, and disability insurance.
- Old-age insurance, Federal health insurance for the aged, social security rulings relating to Federal health insurance, 16413
- Old age, survivors, and disability insurance: disability incidence rates under OASDI system for disability onsets occurring in 1956-64, 16409
- retirement experience of old-age beneficiaries, 1958-68, 16410
- Old age, survivors, disability, and health insurance, benefit statistics, monthly, 16414
- Older persons, *see* Aged.
- On guard, Motor Carrier Safety Bureau bulletin, 16116
- Oneda project, Bear River, Idaho, development, owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718
- Operation Golden Eagle, Golden Eagle Program, extend, report, 15374
- Opinions, *see* names of courts, etc., rendering opinions.
- Optical signals, *see* Signals.
- Optical spectra, *see* Spectra.
- Optical systems, control and guidance signals derived from optical fields, techniques for generation, 16146
- Optics, simulation of radio astronomy interferometer experiment, 16156
- Optometry, occupational guide, 16002
- Orange, Tex., area wage survey, 16014
- Orange County, Calif., deep aquifers, study, 15809
- Oregon:
- census of business, 1967, selected services, area statistics, 15095
 - Walla Walla River basin, sediment transport by streams, 15817
- Organ Pipe Cactus National Monument, Milton Mine, historical and architectural data, 16275
- Organic Chemistry Section, National Bureau of Standards, July 1968-June 1969, summaries of activities, 16234
- Organic compounds, synthetic organic chemicals, production and sales rubber-processing chemicals, 16495
- Organizations, USSR, research organizations, public health work of, study, 15968 *see also* International organizations.
- Organophosphorus compounds, insecticides, methods of analyzing trichlorometaphos and carboxophos in aerosol containers and in air, USSR study, 15954
- Orientation, *see* Echolocation (physiology).
- Orifices, thick plate, with approach flow perpendicular and inclined to orifice axis, discharge coefficients, 16199
- Orphans, veterans children, increase dependency and indemnity compensation, report, 15379
- Oscillations:
- oscillatory flow, bed forms generated in laboratory under, analytical and experimental study, 15648
 - plasma oscillations in Stellarator L-1, quasi-steady electric fields, studies, 15066
- Osmolality, unstimulated human parotid fluid, 15021
- Osmosis:
- reverse—
 - characterization of cellulose acetate membranes and ultrathin films, 15860
 - desalination, methods to retard compaction of cellulose acetate membranes, study, 15861
 - desalination plants, pumping and energy recovery systems, 15855
 - membrane cells, new design concept, 15854
 - membrane regeneration, 15864
 - new membrane candidates for application in synthesis and evaluation, 15857
 - water desalination, concentration polarization control, 15863
- Ostracoda, *see* Crustaceans.
- Ouachita County, Ark., community profile, 15588
- Our Capitol, 15391
- Outagamie County, Wisc.:
- flood plain information, 15657
 - floods, how to avoid damage, 15654
- Outdoor Recreation Bureau, appropriations, 1970, report, 15398
- Outer space:
- aerospace technology positions with NASA, 15134
 - space cooperation, agreement with Japan, 16476
- Outlet works, *see* Reservoirs.
- Outlook for U.S. shipbuilding, 16048
- Overcoats, *see* Coats.
- Overseas service, Federal jobs overseas, 15147
- housing, building and planning, overseas missions, bibliography, 15838
- Overseas business reports, 15167172
- Overseas Private Investment Corporation, create, hearings, 15316
- Oxidation:
- high temperature, protection of tungsten, 16210
 - light-catalyzed chlorine oxidation for treatment of wastewater, investigation, 15744
- Oxides, extraction of copper from, using iron and steel scrap, principles and application to pure systems, 16101
- Oxygen, helium-oxygen environment, blood of subjects exposed at 7 atmospheres pressure, carbonic anhydrase analyses, 16061
- Ozone, treatment of secondary effluents from waste water treatment plants, 15745

P

- PA series, 14999-15003
- Pacific area:
- East Asian and Pacific series, 16463-464
 - U.S. role in Pacific community (address), 16464
- Pacific Northwest Forest and Range Experiment Station, publications, list, 15749
- Pacific Ocean, western, lights and fog signals, list, 16302
- Packaged disaster hospitals, *see* Hospitals. *see* Packing.

- Packing, preservation, packaging and packing of military supplies and equipment, DSA manual, 15493
- Packing industry, meat packing plants, U.S. inspected, construction, equipment, et cetera, guide, 14985
- PAIGH, *see* Pan American Institute of Geography and History.
- Painting books, good foods coloring book, Spanish edition, 15001
- Pakistan, economic trends and their implications for United States, 15586
- Pallet trucks, *see* Motortrucks.
- Pallets, wooden, Department of Defense market, 15769
- Palmby, Clarence D., address, June 20, 1969, 14982
- Pamphlets, *see* names of departments, etc., issuing pamphlets.
- Pan American Institute of Geography and History, participation of United States, appropriation authorization, report, 15273
- Panama Canal, appropriations, 1970, report, 15298
- Panels and paneling, acoustical absorption properties of wood-base panel materials, 15761
- Paone, James, drillability studies, laboratory percussive drilling, 16100
- Papers, *see* Records.
- Paperwork (office practice):
forms management, records management handbook, 16222
- Parameters:
complex, Mathieu's equations for tables of characteristic values, 15015
parametric interaction of superhigh frequency field with plasma, theory, 15071
plasma parameters produced by super high-frequency power in magnetic field steady-state condition, determination, 15064
- Parasites, intestinal, of man, morphology of diagnostic stages, 16355
- Paris, France, airshow, international marketing display, report, 15332
- Parker, John G.:
rare-earth minerals and metals, 16096
titanium, 16109
- Parkinsonism, Parkinson's disease, hope through research, 16346
- Parotid fluid, *see* Saliva.
- Participation of the poor in community decision-making process, 15536
- Particulate matter, *see* Matter.
- Partridges:
chukars, habitat management, 16427
gray, habitat management, 16428
- Passenger vessels, *see* Ships.
- Passengers:
passenger lists of vessels arriving at—
Atlantic and Gulf port (excluding New York) 1820-74), supplemental index, pamphlet to accompany microcopy, 16220
New Orleans, 1820-75, quarterly abstracts, pamphlet to accompany microcopy, 16218
time series regression analysis of freight and passenger transport demand to 1980, 16509
- Pasteurization, egg pasteurization manual, 14975
- Patent Office:
decisions, yearly, 1968—
departmental edition, 16321
document edition, 15218
- Patents:
classification manual, replacement pages, 16323
decisions, yearly, 1968—
departmental edition, 16321
document edition, 15218
- Eastern Utilization Research and Development Division, Hst, 14980
- index, 1968, subjects of inventions, 16322
- Patients, interpersonal relations in care and management, guide for instruction of non-professional personnel assigned to Army medical facilities, 15047
- Patterson, W. L., communities of over 1,000 population with water containing in excess of 1,000 ppm of total dissolved solids, 15859
- Paulet, E. G., strength and serviceability criteria, reinforced concrete bridge members, ultimate design, 16390
- Pawtucket, R. L., area wage survey, 16013
- Pay, *see* Salaries.
- Pay, allowances, etc., junior nuclear qualified submarine officers, special pay, provide, hearing, 15417
- PCAM (punched card accounting machine), *see* Electronic data processing systems.
- Peace, toward an open world (address), 16468
- Peace Corps:
act, amend, reports, 15250, 15260, 15393
appropriations, 1970, hearings, 15299
volunteers, agreement with Trinidad and Tobago, 16477
- Peckham, Brian W., some aspects of air pollution, odors, visibility, and art, 16371
- Pegasus, *see* Satellites.
- Pending insurance bills, hearing, 15336
- Penny Pines Cooperative Reforestation Program, progress report, 15755
- Penobscot Bay, marine biofouling, 1960-68, 16293
- Pense, R. A., mineral industry of South Korea, 16087
- Pensions:
veterans, deaths from service-connected causes, increase dependency and indemnity compensation for survivors—
hearings, 15335
report, 15379
see also Civil service pensions.
- Pepper, L., precision of quartz crystal and mercury differential thermometers in heat-of-hydration test, 15665
- Perception:
autonomic response to auditory stimulation during sleep, 15019
duction, relation to dynamic stereoacuity, 16066
see also Thresholds (perception).
- Performance (psychology):
Navy hospital corpsmen, predicting academic performance, 16060
- Periodic systems, Mendeleyev's periodic law and electronic structure of atoms, USSR study, 15960
- Periodicals, Commerce Dept. periodicals to aid businessmen, 15179
- Periodontal disease, adults, selected examination findings, 16377
- Perkiomen Creek, flood plain information, Green Lane Reservoir to Schuylkill River, extent and frequency of inundation, 15798
- Perlite, minerals yearbook chapter, 16092
- Perry County, Ark., community profile, 15589
- Persian Gulf, lights and fog signals, list, 16302
- Personal factors in dental disease prevention, test to measure dental health knowledge, 16067
- Personal property unformed services, traffic management, regulation, 15035
- Personnel, *see* Social workers.
- Pesticides:
effects on sports and commercial fisheries, hearings, 15425
metabolism, review, 16458
registered agricultural chemicals, insecticides, repellants, acaricides, summary of uses, 14981
- Pests, moving equipment, make sure it's clean first! plant pests often hitchhike in dirt, 15003

INDEX

- Petkof, Benjamin:
gem stones, 16076
mica, 16080
- Petroleum:
Alaska's North Slope oil sale (remarks), 15851
industry, governmental intervention in market mechanism, economists' views, hearings, 15468
products, survey (series), 16095
see also Pipe lines.
- Petrology, *see* Igneous rocks.
- Pharmacodynamics of radioprotective drug, 2-(1-decylamino)ethanethiosulfuric acid, 15020
- Pheasants, ring-necked, habitat management, 16432
- Phenomenological theory of loudness, 16175
- Phenotypes, *see* Genetics.
- Philadelphia, Pa.:
continuous air monitoring projects, National Air Surveillance Projects, 1965
data tabulations and summaries, 16358
ports, a look to the future (remarks), 16050
- Philately and philatelists, *see* Migratory-bird-hunting stamps.
- Philippines, economic trends and their implications for United States, 15882
- Phillips County, Ark., community profile, 15590
- Philosophy, philosophical basis for subject matter for bionics, USSR study, 15973
- Phonorecords:
Library of Congress—
catalog, 16038
list, 16034
- Phosphate rock, *see* Rock phosphates.
- Phosphates, *see* Rock phosphates.
- Photographers:
and photographers (laboratory), examination announcement, 15139
photographer's mate 1 & C, rate training manual, 16312
- Photographic apparatus and supplies:
German industry and market, 15085
United Kingdom industry and market, 15087
- Photography, meteoroid environments determined from photographic meteor data, 16205
- Photons, multiphoton ionization of sodium atom, 15073
- PHS, *see* Public Health Service.
- Physical endurance, *see* Physical fitness.
- Physical fitness, effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058
- Physical sciences, *see* Science.
- Physically handicapped, *see* Handicapped.
- Physicians:
USSR—
Central Institute for advanced training, 15959
training and primary specialization, new principle, 15934
- Physics:
atmosphere and ocean, USSR studies, 15945
high temperature chemistry and physics of materials, bibliography, 16226
plasmas, high-temperature, USSR study, 15984
sound in the sea, 16318
- Physiology, computation engineering, USSR study, 15921
- Piedmont Airlines, aircraft accident, 16284
- Pike County, Ark., community profile, 15591
- Pillars (mine), *see* Mine pillars.
- Pilots & pilotage, Great Lakes and St. Lawrence Seaway pilotage services, agreement with Canada, 16474
see also Aviators.
- Pioneer (USC&GS):
International Indian Ocean Expedition, bathymetry, geomagnetic, and gravity data, 15151
- Pipe and pipe fittings:
heat pipe devices for space suit temperature control, 16127
pipe, metallic, Federal Item Identification guide, change, 15511
- Pipe lines:
natural gas, map, 15720
trans-Alaska pipeline, construction plans, status, etc., hearings, 15463
- Pipelines, *see* Pipe lines.
- Pitts, Mary L., war, selected references, 15022
- Placentia Sound, marine biofouling, 1960-68, 16293
- Plane coordinates, *see* Coordinates.
- Planets, effects in motion of natural satellites, 16153
- Planning:
drug abuse education workshop for teachers, how to plan, 16347
housing, building and planning, overseas missions, bibliography, 15838
kitchen planning guide, 15709
quality in motor vehicle safety standards (remarks), 16241
Soviet public health, USSR study, 15932
- Planning (economics), *see* Economic policy.
- Plant pests, *see* Pests.
- Plants:
plant materials annual progress report—
Louisiana, 16436
Mississippi, 16437
quarantine imports requirements—
Cyprus, 14976
foreign countries for logs and lumber, 14977
Netherlands, 14978
Turkey, 14979
resistant, developing, ideal method of controlling insects, 15006
See also names of plants.
- Plants (Industrial):
250-MGD multistage flash distillation plant with 2-level brine flow, design and cost estimates, etc., 15853
under USDA, continuous inspection, processed fruits and vegetables, etc., list, 15481
see also types of industrial plants.
- Plasma:
and electromagnetic waves, induced Compton effect, under astrophysical conditions, 15063
determination of plasma parameters produced by superhigh-frequency power in magnetic field steady-state condition, 15064
inhomogeneous hot plasma flow, instability, 15065
optically dense plasma with radiative thermal conductivity theory of equilibrium and stability of high-current self-compressed discharge in, 15062
oscillations in stellarator L-1, quasi-steady electric fields studies, 15066
parametric interaction of superhigh frequency field with plasma, theory, 15071
physics of high-temperature plasmas, USSR study, 15984
plasma absorption of high-frequency energy near lower hybrid frequency, 15068
plasma radiation process in astrophysics, 15069
radiation scattered from plasma, feasibility of detecting, 16154
- Plass, William T., tree survival and growth on fescue-covered soil banks, 15757
- PLASTEC reports, 15532

Plastics :
 directory, knowledgeable Government personnel, 15532
 films, investigations for canal linings, 16392
 PLASTECH reports,
 plastic mattress handles from Canada, determination of no injury to U.S. industry, 16493
 Plastics Technical Evaluation Center, PLASTECH reports, 15532
 Plateris, Alexander A., divorce statistics analysis, 16378
 Plates, semi-infinite, diffraction of cylindrical hydroacoustical wave at junction, USSR study, 15952
 Platform trucks, *see* Motortrucks.
 Platinum, platinum-group metals, minerals yearbook chapter, 16095
 Pleasant Valley Canal, change name to Coal-
 inga Canal, report, 15278
 Plotters, device for producing both hard copy alphanumeric listings and digital data plots, 16201
 Plugs, Federal item identification guide, 15500
 Polnssett County, Ark., community profile, 15592
 Point Conception, Calif., radiolotopic sand tracer study, preliminary report on accomplishments, 15646
 Poisons, *see* Toxins.
 Polsson's ratio, determining dynamic properties of snow and ice by forced vibration, 15039
 Polarization (electricity) :
 reverse osmosis desalination of water, concentration polarization control, 15863
 Police, appointments to U.S. Park Police, minimum and maximum age limits, establish, report, 15262
 Polk County, Ark., community profile, 15593
 Pollution caused fish kills, 15743
 Pollution of air, *see* Air pollution.
 Pollution of water, *see* Water pollution.
 Polyethylene, irradiated memory materials, investigation of basic properties, 16123
 Pontocyprididae, *see* Crustaceans.
 Poor :
 nutrition and human needs, national survey, hearings, 15478
 participation in community decisionmaking process, CAP mission guide, 15536
 Pope County, Ark., community profile, 15594
 Population :
 current population reports—
 consumer income, series, 15117
 population characteristics, series, 15114-115
 population estimates, series, 15116
 estimates, 100 large metropolitan areas, 15116
 Federal program in population research, report to Federal Council for Science and Technology, 16396
 trends, hearings, 15309
 Population Growth and American Future Commission :
 establish—
 hearing, 15455
 report, 15409
 Port Arthur, Tex., area wage survey, 16014
 Portable clinical suction device for use in hyperbaric chambers, 16064
 Portland, Oreg., area wage survey, 16015
 Ports, *see* Harbors—also names of ports or places where located.
 Portuguese West Africa, Angola, background notes, 16459
 Post Office and Civil Service Committee, House, reports, 15237, 15265, 15280
 Post Office and Civil Service Committee, Senate, report, 15359

Post Office Department :
 appropriations, 1970, report, 15281
 facilities handbook series, 16327
 non-personnel offices, vehicle maintenance facilities handbook, 16327
 posters, commemorative stamp, 16324-325
 Post offices, directory, with list of ZIP code numbers, 16326, 16330
 Postage stamps :
 commemorative—
 6-cent—
 Christmas (poster), 16324
 Dwight D. Eisenhower (poster), 16325
 Dwight D. Eisenhower dedication ceremonies (remarks), 16331
 Postal service :
 Armed Forces postal systems, San Francisco critique, report, 15280
 State postal maps, 16332
see also International postal service.
 Posters, Post Office Department, commemorative stamps, 16324-325
 Posts, Appalachian woods for highway posts, evaluating, 15765
 Potassium, distribution in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
 Potatoes :
 marketing orders, report, 15396
 research and promotion act, report, 15394
 Poultry, *see* Chickens.
 Poverty :
 food gap, relationship with malnutrition in United States, 15477
 rural Indian Americans, 15617
 Powders, ultrafine comminuted powders, used for producing dispersion-strengthened nickel, 16172
 Power :
 power and cross-spectra and space-time correlations of surface fluctuating pressures at Mach numbers between 1.6 and 2.5, 16185
 super high-frequency power in magnetic field steady-state condition, determination of plasma parameters produced, 15064
see also Electricity.
 Power plants, *see* Electric power plants.
 Pozzolan cement, *see* Cement.
 Public Roads Bureau, program (series), 16381-382
 Prairie County, Ark., community profile, 15595
 Prayers, offered by Senate Chaplain, 89th and 90th Congresses, 15351
 Precious stones, gem stones, minerals yearbook chapter, 16076
 Precipitation, Long Island, N.Y., regime, 15806
see also Hall.
 Pregnancy, planning your pregnancy, 15616
 President of United States :
 address, Sept. 18, 1969, 16468
 election, by direct popular vote, amend U.S. Constitution, proposal, reports, 15227, 15229
 memorial services and enlogies for Dwight D. Eisenhower, print as House document, report, 15286
 President's Committee on Employment of the Handicapped, membership directory of committees, 16333
 President's Council on Youth Opportunity, appropriations, authorize, report, 15232
 Presque Isle Peninsula, effect of particle size and distribution on stability of artificially filled beach, 15647

INDEX

Pressure:

- characteristic pressure distribution in outlet works inlets, 15666
- pressures and heat transfer on 75° swept delta wing with trailing edge flap at Mach 6 and angles of attack to 90°, 16171
- surface fluctuating at Mach numbers between 1.6 and 2.5, power-and cross-spectra and space-time correlations, 16185
- Pressure suits, man's capacity for self-locomotion on the moon, detailed report, 16128
- Prices, medical care price changes, medicare's first 3 years, 16416
- see also* Inflation (finance)—*also* names of commodities.
- Printing, high-speed digital plotter-printer for producing hard copy alphanumeric listings and digital data plots, 16201
- Prints, commercial, catalog of copyright entries, 15488
- see also* Lithographs.
- Prizes, *see* Rewards (prizes, etc.).
- Probabilities (mathematics):
 - probability density functions of n vectors added with random directions, 16316
- Problems of philosophy (USSR periodical): translations, 15926
- Processing of food, *see* names of foods processed.
- Procurement, *see* Armed Forces—Government supplies—Transportation—*also* names of commodities procured.
- Product Safety Commission, *see* National Commission on Product Safety.
- Production, research reports, 15005-6
- see also* names or classes of commodities.
- Professional challenge and growth for accounting majors in Federal Highway Administration, 15703
- Professional education, national program of educational laboratories, 15637
- Professional papers, Geological Survey, 15802-807
- Professional workers, aliens, in-migration into United States, annual indicator, 15845
- Program aid series, 14999-15003
- Programming (computers), *see* Computer programs/programming.
- Programming (planning):
 - planning-programming-budgeting defense analysis, examples, 15458
- Project Apollo (man-in-space program):
 - Apollo 11, mission report, 16119
 - Apollo program management, staff study, 15327
- Propagation, vinifera grape varieties, chip-bud method of propagating on rootstocks, 14996
- Propellants, solid, under acceleration, experimental investigation of effect of aluminum size and loading on burning rate, 16163
- Propellers, static balancing, standards raised, USSR study, 15914
- Property:
 - conveyance to Maryland for highway use, reports, 15245, 15413
 - Institutions of higher education, 1966-67, financial statistics, 15631
 - insurance standards, rehabilitation grants and loans to meet requirements, 15836
 - see also* Real estate.
- Prophylaxis, anti-influenza drug amantidine, evaluation of prophylactic activity, USSR study, 15950
- Prosecutions and seizures under Federal seed act, 15482
- Protective shelters, fallout shelters, technical report, 15133
- Proteins, effect of protein dietary supplementation on physical performance of Marine Corps officers candidates, 16058

Providence, R.I.

- area wage survey, 16013
- Prunes, fresh, feasibility of shipping jumble packed in fiberboard boxes, 14997
- Psychology, practice in District of Columbia, regulate, hearing, 15431
- see also* Engineering psychology.
- Public assistance:
 - cases, reasons for opening and closing, 16236
 - medical program, costly problems, hearings, 15432
 - medical assistance financed under public assistance title of social security act, 16235
 - State medical assistance, payments, reductions prohibited, law, 15204
 - welfare reform and food stamps, hearings, 15478
- Public Broadcasting Corporation, financial support, report, 15259
- Public buildings, financed with Federal funds, design and construction, 16407
- Public funds, design and construction of public buildings financed with Federal funds, 16407
- Public health, *see* Health.
- Public Health Service:
 - grants and awards, 1968 funds, construction of facilities, 16264
 - Surgeon General's Interim report of Scientific Advisory Committee on Television and Social Behavior, hearings, 15428
 - trauueship program, professional nurse short-term courses, 16265
- Public information and highway safety, 16250
- Public Land Law Review Commission, appropriations, 1970, report, 15398
- Public laws, *see* Law.
- Public policy, science, technology, and public policy, government-science relationships during 90th Congress, 1st and 2nd sessions, 15330
- Public property:
 - Federal property and administrative services act of 1949, amend, report, 15402
 - Government owned and leased real property overseas, improvements needed in management by State Dept., GAO report, 15782
- Public Roads Bureau:
 - highways or highway bridge engineering, opportunities for young engineers, bridge to your success, 16385
 - professional highway engineer, opportunities, 16388
 - right-of-way training program, challenging opportunities, 16383
- Public schools, *see* Schools.
- Public welfare, personnel, 1968 annual statistical data, 16408
- Public Works, appropriations, 1970, report, 15298
- Public Works Committee, House:
 - hearings, 15326
 - travel authorization, report, 15282
- Public Works Committee, Senate, report, 15370
- Publications, *see* names of departments, etc., issuing publications.—*also* subjects.
- Puerto Rico, violence, Communist threat to U.S., hearings, 15467
- Pulaski County, Ark., community profile, 15596
- Pullman Company, transport statistics, 15895
- Pulp wood, *see* Wood pulp.
- Pulpwood, *see* Wood pulp.
- Pulses:
 - transformer of closely spaced waveforms having nonzero average value, 16200
 - tropospheric pulse propagation, 15675
- Pumping equipment, *see* Pumps.

Pumps:

- axial-flow, in liquid sodium, cavitation damage and effect of fluid temperature on performance, 16202
- pumping and energy recovery systems for reverse osmosis desalination plants, 15855
- vacuum pumping doubles maple sap yield on flat land, 15758
- Purchasing:**
 - how to buy lawn seed, 14993
 - institutional meat purchase specifications approved by USDA, cured, dried, and smoked beef products, 15480
- Puzak, P. P., standard method for 1-inch dynamic tear test, 16314
- Pyrolysis, gas flow through char layer during ablation, simulation, 16197
- Pyrophyllite, minerals yearbook chapter, 16107

Q

- Quail:**
 - bobwhite, habitat management, 16424
 - California, habitat management, 16425
- Quality control, chart technique, technical inspection manual, 16309
- Quantum theory:**
 - communication efficiency of quantum systems, 16203
 - quantum magnetometry, selections, USSR study, 15961
- Quarantine, *see* subjects.
- Quartz crystal, precision of quartz crystal thermometers in heat-of-hydration test, 15665
- Quatinetz, Max, dispersion-strengthened nickel produced from ultrafine comminuted powders, 16172
- Questions and answers, Gun control act of 1968, 15871

R

- Race problems, voting rights act of 1965, extend report, 15233
- Radiant energy:**
 - field emission energy distributions, molecular vibration spectra, 16174
 - transfer measurements in air, 16124
- Radiation:**
 - coefficients of right-angle cruciform slot antennas with allowance for their reciprocal effect, possibility of measuring, USSR study, 15919
 - high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stability, 15062
 - irradiated polyethylene memory materials, investigation of basic properties, 16123
 - nuclear, effect at cryogenic temperatures on tensile properties of titanium and titanium-base alloys, 16186
 - plasma radiation process in astrophysics, 15069
 - scattered from plasma, feasibility of detecting, 16154
 - thermal radiative properties data, comprehensive program for compilation and analysis, 16138
 - see also* Ionizing radiation.
- Radiators (spacecraft):**
 - low-temperature, emissivity coatings, 16136
- Radio, inadequacies of Soviet radio terminology discussed, 15958
- Radio astronomy, interferometer experiment, optical simulation, 16156
- Radio broadcasting, public broadcasting act of 1967, amend, report, 15259
- Radio communication:**
 - amateur service, FCC rules and regulations, 15697
 - citizens radio service, FCC rules and regulations, 15697

- Radio communication—Continued
 - telecommunication facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement with Australia, 16472
- Radio engineering, microelectronic equipment, components for functional synthesis, USSR study, 15940
- Radio frequencies, allocation, spectrum problems and impact on small business, hearings, 15333
- Radio frequency allocation, *see* Radio frequencies.
- Radio interferometers. *See* Interferometers.
- Radio operators, radioman 1 & C, rate training manual, 16313
- Radio physics, *see* Radiophysics.
- Radio spectrum, *see* Radio frequencies.
- Radioactivity:**
 - fallout shelters, technical report, 15133
 - radiogenic heat production and heat flow, consequence of thorium, uranium, and potassium in igneous rocks of Boulder batholith region, Mont., 15805
- Radiobiology, pharmacodynamics of radioprotective drug, 2-(1-decylamino) ethanethiosulfuric acid, 15020
- Radioisotopes, *see* Isotopes.
- Radiomen, *see* Radio operators.
- Radiometers, absolute, for use in ballistics-range and shock-tube experiments, 16157
- Radiophysics, radiophysical investigations of Venus, 16208
- Radiotracer procedures for mechanistic studies in air pollution research, 16103
- Rafters, trussed rafters, design criteria, 15827
- Railroad accidents, investigation reports, 15725
- Railroad employees, hours of service act of 1907, amend to reduce 16 hour maximum limitation for certain employees, report, 15267
- Railroad Retirement Board, member, nomination of Nell P. Speirs, hearing, 15475
- Railroads, lessors and proprietary companies, transport statistics, 15895
- see also* Electric railroads.
- Railway Express Agency, Inc., transport statistics, 15895
- Railways, *see* Electric railroads—Railroads.
- Ramsey, Leah W., institutions of higher education, index by State and congressional district, 15633
- Randolph County, Ark., community profile, 15597
- Random processes, *see* Probabilities (mathematics).
- Range finding, frequency method, USSR study, 15979
- Rankine-cycle, magnetohydrodynamic space-power generation systems, effect of electrothermal instabilities, 16195
- Rare earths, minerals and metals, minerals yearbook chapter, 16096
- Rasch, Phillip J., effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058
- Rate training manuals, 16310, 16312-313
- Rathbun, R. E., response of laboratory alluvial channel to changes of hydraulic and sediment-transport variables, 15802
- Ratings, Navy, training manuals, 16310, 16312-313
- Reactor fuels, *see* Fuel.
- Reactors (atomic):
 - use of thorium, civilian nuclear power, 15077
- Read before driving, 16251
- Reading, right to read, target for the 70's (address), 15641
- Real estate:**
 - Government owned and leased real property overseas, improvements need in management by State Dept., GAO report, 15782

INDEX

- Real estate—Continued
 minimum property standards, multifamily housing, 15708
 real property, FAA handbook, change, 15689
 Real property, *see* Real estate.
- Recipes, quantity recipes for type A school lunches, guides for writing and evaluating, 14992
- Reclamation Bureau:
 appropriations, 1970, report, 15298
 research reports, 16392-393
- Reclamation of land, feasibility of proposals, Interior Dept. to investigate, report, 15261
- Reclamation projects, *see* Reclamation of land.
- Reconnaissance (military), *see* Military information.
- Records:
 disclosure of official records and information, by Social Security Administration, regulation, 16415
 management handbook, 16222
 papers in Library of Congress—
 Belknap, George E., 16037
 Belknap, Reginald R., 16037
 Cushing, Leonard F., 16035
 Selfridge, Thomas O., jr., 16040
 Selfridge, Thomas O., sr., 16040
 Snow, Elliot, 16035
 papers in Marine Corps Museum, Cochrane, Henry C., 16043
- Recreation, *see* Recreational areas and demonstration projects.
- Recreational areas and demonstration projects, national recreation area in Sawtooth Country, concept, 15754
- Recruiting and enlistment, Army Materiel Command coordinated recruitment program, annual progress report, 15054
- Red Sea, lights and fog signals, list, 16302
- Redevelopment (city planning, etc.):
 area overall economic development programs, guide, 15535
 funded redevelopment areas, map, 15533
 housing and urban development act of 1969, reports, 15297, 15371
 housing and urban development programs, progress report, 15424
 urban renewal handbook, 15830-832
 urban renewal planning (address), 15824
- Reduction in force, *see* Government officials and employees.
- Reed, Louis S., independent health insurance plans in 1968, preliminary estimates, 16419
- Reforestation, *see* Forest planting.
- Refugees:
 Cuban and others, assistance, appropriations, 1970, hearings, 15299
 refugees and civilian casualty and social welfare problems in South Vietnam, hearings, 15465
- Refugees, Freedmen, and Abandoned Lands Bureau, Georgia, superintendent of Education records 1865-70, pamphlet to accompany microcopy, 16221
- Refuges, *see* Wildlife refuges—also names of refuges.
- Refuse, *see* Waste products.
- Registers:
 manuscript register series, 16043
 papers in Library of Congress—
 Belknap, George E., 16037
 Belknap, Reginald R., 16037
 Cushing, Leonard F., 16035
 Selfridge, Thomas O., jr., 16040
 Selfridge, Thomas O., sr., 16040
 Snow, Elliot, 16035
 papers in Marine Corps Museum, Cochrane, Henry C., 160043
- Regression (statistics):
 time series regression analysis of freight and passenger transport demand to 1980, 16509
- Regulation, *see* names of departments, etc., issuing regulations—also subjects.
- Regulatory agencies, *see* Government offices.
- Rehabilitation, HUD grants and loans to meet insurability requirements of your property, 15836
- Rehabilitation of criminals, selective placement in Federal civil service employment, handbook, 15142
- Rehabilitation of the disabled, coordinator's scoreboard, review of what's new in placement of the handicapped, 15136
- Reinforced concrete, *see* Concrete.
- Relaxation time (physics):
 studies of relaxation and comparison of prediction methods in hypersonic turbulent nozzle-wall boundary layers, 16181
- Relays, *see* Electric relays.
- Relief work, disaster communications, FCC rules and regulations, 15697
- Renegotiation Board, regulations, 16395
- Rent, low-rent housing financing handbook, 15833
- Repairing, *see* subjects.
- Reports, *see* names of departments, etc., issuing reports—also subjects.
- Requirements statements for selected data acquisition equipment, 15673
- Research:
 fellowships, National Institutes of Health, information and eligibility criteria, 16349
 R & D careers, continuing education, exploratory study, 16280
 Soviet budget provides for research and defense, 15916
see also Military research—also names of departments, etc., doing research—also subjects.
- Research and development report, Atomic Energy Commission, 15062-77
- Research and statistics notes, 16416-419
- Research Flight Facility, Miami, Fla., ESSA technical report, ERL-RFF series, 15674
- Research institutes, USSR, public health work of research organizations, study, 15968
- Research notes, Forest Service, 15756-760
- Research papers, Forest Service, 15761-775
- Research reports:
 Cold Regions Research and Engineering Laboratory, 15038, 15649-650
 Reclamation Bureau, 16392-393
- Research scientists, continuing education for R & D careers, exploratory study, 16280
- Reserve components of Armed Forces:
 annual report of Secretary of Defense, 15492
 personnel strengths for 1970, authorization, report, 15295
- Reserve Officers' Training Corps, Army:
 flight training, general information, 15036
 program, where the leaders are, 15059
 scholarship program, Army ROTC, 15037
 investment in your future, 15045
 step into your future, new 2 year Army ROTC program, 15051
- Reservoirs, outlet works inlets, characteristic pressure distribution, 15051
- Resistors, *see* Electric resistors.
- Resolutions, *see* Law.
- Resonance, rare gas resonance lamps, 16230
- Resource bulletins, Forest Service, 15776
- Resource publications (series), 16456
- Resources, *see* Natural resources.
- Respiratory system, modelling mechanism of generation of respiratory rate, USSR study, 15962
- Responses (psychology):
 autonomic response to auditory stimulation during sleep, 15019
- Restricted stock options, *see* Stocks.
- Retail trade, census of business, 1967, area statistics, 15090

Retainers, for electrical and electronic components, Federal item identification guide, 15504
 Retirement, *see* Civil service pensions.
 Revenue:
 District of Columbia—
 Federal payment authorization, report, 15407
 provide, hearings, 15430
 Federal Government should grant annually specific percentage of its income tax to State governments, national debate topic for high schools, 1969-70, selected excerpts, etc., 15224
 Revenue agents:
 career in professional accounting, IRS, 15872
 revenue officer career opportunities, 15873
 Revenue officers, *see* Revenue agents.
 Reverse osmosis process, *see* Osmosis.
 Revolutions, scientific-technical revolution.
 USSR comments, 15955
 Rewards (prizes, etc.):
 Soviet prizes in science and technology, 15909
 RFF, *see* Research Flight Facility, Miami, Fla.
 Rhode Island:
 census of business, 1967, wholesale trade, area statistics, 15108
 Rice, Dorothy P., paper, Oct. 24, 1967, 16412
 Rice:
 production and export in Brazil, prospects for 1970's, 15624
 situation, 15625
 Richards, Alan M., consideration of some hi-fi earphones for submarine sonar, 16065
 Richards, Louise G., LSD-25, layman's guide to pharmacology, physiology, psychology and sociology of LSD, factual account, 16117
 Richardson, Elliot L.:
 address, Sept. 5, 1969, 16469
 foreign aid and U.S. national interests (statements), 16465
 Rigging, *see* Masts and rigging.
 Rights-of-way, *see* Roads and highways.
 Rimestad, Idar, nomination, hearing, 15454
 Rio Grande National Forest, La Garita Wilderness, general information, 15752
 Riots:
 civil and criminal disorders, investigation, hearings, 15459
 print additional copies, reports, 15363-364, 15386-388
 Ritter, John R., preliminary studies of sedimentation and hydrology in Bolinas Lagoon, Marin County, May 1967-June 1968, 15801
 Rivers:
 daily stages, 16526
 ice conditions, effects of thermal pollution, simplified method of calculation, 15649
 streams in vicinity of Fairfield, Calif., engineers report—
 departmental edition, 15663
 document edition, 15225
 Walla Walla River basin, Washington and Oregon, sediment transport by streams, 15817
 Rivets, rivet caps and collars, Federal item identification guide, 15513-514
 Roads and highways:
 construction on Federal highway projects, standard specifications, 16389
 development of multiple use facilities on highway right-of-way, interstate route 40 in Oklahoma City, Okla., 16384
 highway planning technical reports, 16387
 highway posts, Appalachian woods, evaluation, 15765
 highway safety literature, announcement of recent acquisitions, subject category index, 16240

Roads and highways—Continued.
 interstate system, relationship between geometric and traffic characteristics and accidents, analysis and modeling, 16380
 Maryland, real property acquisition for highway purposes, reports, 15245, 15413
 motor vehicles weight and width limitations on interstate system, raise limits, hearings, 15326
 network analysis series, use of effective speed as evaluation criterion, 16387
 right-of-way training program, challenging opportunities in Public Roads Bureau, 16383
 Robbins, Chandler S., breeding bird survey, 16457
 Robbinsville, N.C., floods on Cheoah River and tributary creeks, 16503
 Robert A. Taft Water Research Center, report TWRC series, 15744-745
 Roberts, Althea W., new ship construction, 16052-53
 Robinson, Harold, monograph on foliar anatomy of genera Connellia, Cottendorfia, and Navia (Bromeliaceae), 16403
 Robots, information robots and manipulators, USSR study, 15935
 Rock drilling, *see* Drilling.
 Rock phosphates:
 Colombia, preliminary report, with section on phosphate occurrence at Turmeque, 15793
 minerals yearbook chapter, 16094
 Rocks, *see* Igneous rocks.
 Rogers, William P., address, Aug. 8, 1969, 16464
 Rohde, John E., discharge coefficients for thick plate orifices with approach flow perpendicular and inclined to orifice axis, 16199
 Roof supports, *see* Mine props.
 Roofing, products, hail resistance, 16223
 Ross, Thomas G., extent and frequency of floods in Beden Brook basin in Somerset and Mercer Counties, N.J., 15797
 Rosters, *see* names of departments, etc., issuing rosters.
 ROTC, *see* Reserve Officers' Training Corps, Army.
 Roth, William V., jr.:
 listing of operating Federal assistance programs—
 print as House document, report, 15392
 report, 15246
 Rotorcraft, briefs of accidents involving, U.S. general aviation, 16287
 Rotors:
 flexible rotor blade, dynamic response to concentrated force moving from tip to root, 16167
 rigid, dynamics, 16125
 Royster, Dick M., jet-salt-stress-corrosion cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium-alloy sheet, 16170
 Rubber, rubber-processing chemicals, production and sales, 16495
 Ruffed grouse, *see* Grouse.
 Rules, *see* names of courts, commissions, etc., issuing rules—also subjects.
 Rules and Administration Committee, Senate, reports, 15363-364, 15386-389, 15391-392
 Rules Committee, House, reports, 15229, 15234-236, 15242, 15251-254, 15259-261, 15266-267, 15275-277, 15282-284
 Runways (aeronautics):
 diamond runway centerline, simulation test at Arcata, Calif., 15692
 three-track runway and taxiway profiles measured at international airports A and B, 16187

INDEX

- Rural communities:
 Future Farmers of America and civil defense programs, 15131
 housing programs, extend, reports, 15297, 15371
 population trends, hearings, 15309
 rural Indian Americans in poverty, 15617
 Rural poverty, *see* Poverty.
- Russla, *see* Union of Soviet Socialist Republics.
- Ryan, J. Patrick, platinum-group metals, 16095
- Rynn, John D., nomination, hearing, 15416
- Ryukyu Islands, appropriations, 1970, hearings, 15299
- S**
- SAFEGUARD antiballistic missile program, *see* Missiles.
- Safety equipment and appliances, safety equipment manual, Naval Material Command, 16319
- Safety of life:
 accident prevention, Health, Education, and Welfare Department program (remarks), 16335
 alcohol and highway safety countermeasures, 16242
 building trades and construction industry in Federal and federally financed construction projects, promote, law, 15202
 Federal coal mine health and safety act of 1969, report, 15390
 highway safety literature, announcement of recent acquisitions, subject category index, 16240
 industrial safety, using injury statistics, 16008
 Labor Dept. training programs, occupational safety aid, OSA LS series, 16010
 mine safety, coal miners, improve working conditions—
 hearings, 15470
 report, 15390
 motor vehicle safety—
 compliance with Federal motor vehicle safety standards, 16248
 standards, planning for quality (remarks), 16241
 national traffic and motor vehicle safety act of 1966, amend definition of motor vehicle equipment—
 hearings, 15427
 report, 15253
 omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
 on guard, Bureau of Motor Carrier Safety bulletin, 16116
 passenger vessels meeting safety standards, disclosure of construction details, eliminate, report, 15291
 public information and highway safety, 16250
 read before driving, safety driving practices, booklet, 16251
 safety in industry mechanical and physical hazards series, 16007
 system safety program for systems and associated subsystems and equipment requirements, military standard, 15527
 towing vessel safety and accident preventive recommendations, study, 16288
 traffic codes and laws, enforcement, 16247
- Sailing directions:
 India, west coast, change, 16300
 Labrador and Hudson Bay, change, 16298
 South America, change, 16299
- St. Francis County, Ark., community profile, 15598
- St. Lawrence River and Valley Seaway, pilotage services, agreement with Canada, 16474
- St. Lawrence Seaway, *see* St. Lawrence River and Valley.
- St. Louis, Mo.:
 continuous air monitoring, National Air Surveillance Networks, data tabulations and summaries—
 1965 projects, 16358
 1967 projects, 16360
- Salaries:
 deferred executive compensation, tax reform hearings, summary of testimony, 15342
 Federal employees, salary comparability act of 1969, implement, report, 15265
 House of Representatives employees, per annum gross rate of pay of certain positions, report, 15240
- Salerno, Italy, Salerno to Cassino, United States Army in World War II, 16071
- Sales, firm electric power for resale, 1965-67, by private electric utilities by Federal projects, 15719
see also names of commodities, etc.
- Salesmen and salesmanship, selling in Belgium, 15171
- Saline County, Ark., community profile, 15599
- Saline Water Office, appropriations, 1970, report, 15398
- Saliva:
 unstimulated human parotid fluid—
 effects of atropine on composition, 15018
 specific gravity and osmolality, 15021
- Salmonella, surveillance, National Communicable Disease Center, annual summary, 16362
- Salt Lake City Corporation, land conveyance, release conditions in deed, report, 15403
- Salt water, *see* Sea water.
- Salts, hot-salt-stress-corrosion cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium alloy-sheet, 16170
- Samson, Harland E., post secondary distributive education, suggested guide for administrators and teachers, 15638
- San Antonio, Tex., area wage survey, 16023
- Sand:
 aerial methods of studying and mapping sands, USSR study, 15915
 bed forms generated in laboratory under an oscillatory, analytical and experimental study, 15648
 effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
 radioisotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
- Sandy Hook quadrangle, N.J., geology, 15794
- San Francisco, Calif., food chain selling practices, economic report, 15739
- Sanger, Frederick J., foundations of structures in cold regions, 15040
- Sanitation, fish plants, sanitary requirements, military standard, 15530
- Santa Ana, Calif., area wage survey, 16017
- Santa Ana National Wildlife Refuge:
 birds, list, 16447
 general information, 16444
- Sap, sugar maple, trees, yield on flat land double by vacuum pumping, 15758
- Satellites:
 artificial, theory and lunar theory, unified treatment, 16193
 ESSA direct transmission system users guide, 15671
 natural, planetary effects in motion, 16153
 Pegasus and Explorer XXIII, detector panels, calibration, 16204
- Saudi Arabia, foreign trade regulations, 15172
- Savings accounts, *see* Banks and banking.
- Savings and home financing source book, 15706

- Savings and loan associations:
housing credit, brand new ball game, the 70's (address), 15704
savings and home financing, 1968, source book, 15706
see also Federal savings and loan associations.
- Sawtooth Country, national recreation area, concept, 15754
- Sawtooth National Recreation Area, establish, hearings, 15320
- SBA, *see* Small Business Administration.
- Scale, control, in saline water distillation, basic studies, 15558
- Scales (fishes):
function of ctenoid apparatus of fish in presence of turbulent boundary layer, USSR study, 15963
- Schaffer, Robert, Organic Chemistry Section, July 1968-June 1969, summary of activities, 16234
- Scherrer, Victor E., spectroscopic study of helium arc, 16162
- Schnellbacher, E. E.:
addresses—
Sept. 28, 1969, 15888
Sept. 29, 1969, 15891
- Schoharie County, N.Y., soil survey report, 16438
- Scholarships:
Army ROTC program, 15037
investment in your future, 15045
educational trust funds, employer contributions, report, 15283
- School buildings, construction, grants to increase educational opportunities, hearings, 15314
- School lunches, type A, quantity recipes, guides for writing and evaluating, 14992
- School of Aerospace Medicine, technical reports, 15017-21
- Schools:
enrollment, Oct. 1968 and 1967, population characteristics, 15114
pilot, Federal aviation regulations, change, 15687
public, elementary and secondary schools in large school districts, with enrollment and instructional staff, by race, fall 1967, directory, 15629
transition from school to work in selected countries, 16030
see also Elementary education.
- Schroeter, Richard B., canned deciduous fruit industry of South Africa, 15747
- Schumann, David R., effect of tension wood on hard maple used for manufactured parts, 15763
- Science:
Academy of Sciences, Belorussian SSR, history and activities, outline, 15981
Academy of Sciences, USSR, experiments with electronic techniques, 15971
centralization of Federal activities, print as House document, report, 15289
cold regions, science and engineering, 15040, 15652
effectiveness of science and its achievements, USSR study, 15946
Federal science activities centralization, subcommittee report, 15226
Latvia's future scanned, 15917
NASA scientific and technical information system, and how to use it, 16147
physical sciences, Air Force research objectives, 1969, OAR, 15016
science, technology, and public policy, government-science relationships during 90th Congress, 1st & 2d sessions, 15330
scientific activities of nonprofit institutions, 16281
scientific progress in Lithuanian SSR, USSR survey, 15933
scientific-technical progress tempo reviewed, USSR, 15976
- Science—Continued
scientific-technical revolution, USSR comments, 15955
socialism speeds scientific and technical progress, USSR study, 15983
software of change (address), 15176
Soviet prizes, 15909
strategy and science, toward a national security policy in the 1970's, hearings, print as House document, report, 15287
surveys of science resources series, 16281
technical aids, opportunities, examination announcement, 15145
see also names of science.
- Science and Astronautics Committee, House: committee prints, 15327, 15330-332
hearing, 15328
publications, list, 15329
reports, 15274, 15294
- Scientific Advisory Committee on Television and Social Behavior, Surgeon General's interim report, hearings, 15428
- Scientific institutions, *see* Nonprofit organizations.
- Scientific-research institutes and their work, USSR study, 15956
- Scientists:
approach sources of life, USSR study, 15967
Ukrainian scientists work for the people, USSR study, 15939
wave motion problems, investigations, USSR study, 15930
- Scott County, Ark., community profile, 15600
- Scrap:
iron and steel, use in extraction of copper from oxides, principles and application to pure systems, 16101
tires, destructive distillation, 16102
zinc-base die cast, refining, using low-cost fluxes, 16106
- SDS, *see* Students for a Democratic Society.
- Sea, *see* Ocean.
- Sea water, salt water desalination by freezing method, USSR study, 15928
- Seaborg, Glenn T.
remarks—
Sept. 24, 1969, 15082
Oct. 1, 1969, 15083
Oct. 13, 1969, 15078
- Sealing, dam surfaces, isothermal compressible flow with relative rotation, computer program, 16155
- Seals (animals):
fur seal investigations, 15184
- Seals and glands, investigation of isothermal compressible flow across rotating sealing dam, computer program, 16155
- Search for unity, 15842
- Searches and seizure, prosecutions and seizures under Federal seed act, 15482
- Searcy County, Ark., community profile, 15601
- Seawater, *see* Sea water.
- Sebastian County, Ark., community profile, 15602
- Secondary education:
distributive education, post secondary, guide for administrators and teachers, 15638
elementary and secondary education act—amendments of 1969, hearings, 15473
title I, statistical report, 15643
- Securities:
credit, by persons other than banks, brokers, or dealers, regulation, amendment, 15729
foreign, interest equalization tax act, extend—
law, 15198
reports, 15234, 15406
margin, credit by banks for purchasing or carrying, regulation, amendment, 15731

INDEX

- Securities—Continued
market, effect of institutional investors, study, extend time and increase authorization—
hearing, 15325
report, 15285
- Securities and Exchange Commission :
member, nomination of A. Sydney Herlong, hearing, 15422
study of institutional investors, effect on securities market, etc., extend time and increase authorization—
hearings, 15325
report, 15285
- Securities exchanges :
act of 1934, amend—
hearings, 15325
report, 15285
- Sedges, elk sedge, autecological characteristics, 15760
- Sedimentation and deposition :
bed forms, generated in laboratory under oscillatory flow, analytical and experimental study, 15648
laboratory alluvial channel, response to changes of hydraulic and sediment-transport variables, 15802
sediment—
analysis, laboratory theory and methods, 15811
transport by streams in Walla Walla River basin, Wash. and Oreg., 15817
sediment transport in alluvial channels (series), 15802
sedimentation in small drainage basins (series), 15815
upper Stony Creek basin, eastern flank of Coast Ranges, northern Calif., 15815
- Seeds :
certifying, uniform standards and procedures, report, 15362
Federal seed act—
amend, report, 15362
prosecutions and seizures under the act, 15482
how to buy lawn seed, 14993
- Seedskaadee National Wildlife Refuge, general information, 16453
- Selden, Jacob, Air Force research objectives, 1969, physical sciences, engineering sciences, environmental sciences, life sciences, 15016
- Seismology, instruments for seismic stations, improvement and creation, USSR study, 15948
- Selfridge, Thomas O., jr., papers in Library of Congress, register, 16040
- Selfridge, Thomas O., sr., papers in Library of Congress, register, 16040
- Selling, *see* Salesmen and salesmanship.
- Semiconductors, methods of measurements for semiconductor materials, process, control and devices, 16229
- Senate :
appropriations, 1970, legislative, hearings, 15415
delegation, 9th Mexico-United States Inter-parliamentary Group meeting report, 15453
- Senate documents, 15351-352
- Senate executive documents, 15353-355
- Senate reports, public bills, 15356-413
- Sensors, contaminant and atmospheric, analytical study, phase 1, 16122
- Service and regulatory announcements, Consumer and Marketing Service, 15483
- Service insurance, *see* Life insurance.
- Service trades, census of business, 1967, area statistics, 15091-98
- Servicemen *see* Armed Forces—Life insurance.
- Sevier County, Ark., community profile, 15603
- Serving a growing economy and a growing people, Commerce Dept., 15181
- Servo systems, *see* Servomechanisms.
- Servomechanisms, fluidic vortex valve servoactuator development, 15056
- Shafts, shaft collars and hub clamps, Federal item identification guide, 15515
- Shale, Fayetteville, Girty's invertebrate fossils from, revision, 15803
- Shannon, Ira L. :
effects of atropine on composition of unstimulated human parotid fluid, 15018
enamel solubility reduction by stannous hexafluorozirconate, 15017
unstimulated human parotid fluid, specific gravity and osmolality, 15021
- Shapes, structural shapes, nonmetallic, Federal item identification guide, 15517
- Sharp County, Ark., community profile, 15604
- Sharpe, F. Phillip, lightweight backpack high-voltage electrofishing unit, 16456
- Shaw, Henry I., jr., United States Marine in occupation of Japan, 16045
- Shaw, Manny, electrochemical characterization of nonaqueous systems for secondary battery application, 16141
- Shawano County, Wis. :
floods—
how to avoid damage, 15654
plain information, 15657
- Sheet metal, filament-stiffened sheet, stress concentration around broken filaments, 16191
- Sheffler, K. D., mechanical behavior of tantalum-base T-111 alloy at elevated temperature, 16143
- Shekarchi, E., mineral industry of Zambia, 16089
- Shellfish, North Carolina landings, 15182
- Shells (aircraft) :
conical and tension shell Mars entry capsules, synthesis of optimum structural designs, 16121
- Shells (structural) :
buckling of shells of revolution with various wall constructions, errata, 16120
- Shelters, *see* Protective shelters.
- Shielding, civil defense, and gamma-ray production and transport, special sessions, proceedings, 15074
see also Heat shields.
- Shields, for electrical and electronic components, Federal item identification guide, 15504
- Shiller William R. :
personal factors in dental disease prevention, test to measure dental health knowledge, 16067
subject acceptance of stannous fluoride treatment, 16063
- Ship Structure Committee, serial no. SSC, 16400
- Shipbuilding :
new ship construction delivered, etc. oceangoing 1,000 gross tons and over in U.S. and foreign shipyards—
1966 list, 16053
1967 list, 16052
U.S., outlook (remarks), 16048
- Shipments, *see* Freight—*also* names of articles shipped.
- Shippers, recovery of reasonable attorney's fees, hearing, 15429
- Shipping, *see* Water carriers.
- Shipping conferences, steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 15710
- Shipping containers, *see* Containers.

- Ships:**
 cargo ship hulls, high-strength low-alloy steel weldments, study of factors which affect adequacy, 16400
 Coast Guard, authorization for procurement, law, 15197
 merchant type ships of 1,000,000 tons in operation, under construction, and on order, 16051
 military procurement appropriations, 1970—
 hearings, 15302
 report, 15295
 ocean cruise vessels, operating differential subsidy, remove certain limitations, report, 15292
 passenger lists of vessels arriving at—
 Atlantic and Gulf Coast ports (excluding New York), supplemental index, pamphlet to accompany microcopy, 16220
 New Orleans, quarterly abstracts, pamphlet to accompany microcopy, 16218
 passenger vessels—
 meeting safety standards, disclosure of construction details, eliminate, report, 15291
 rules and regulations, 15157
 towing vessel safety and accident preventive recommendation, 16288
 who needs ships? you do! (remarks), 15716
 see also Fishing vessels—Hulls (ship)—Towing—Warships.
Ships (construction), see in main alphabet. Shipbuilding.
 Shlosinger, A. P., heat pipe devices for space suit temperature control, 16127
Shock (mechanical):
 non-Newtonian gelled fluids as shock-and vibration-isolation medium, feasibility study, 15055
 Shock tubes, and ballistic-range experiments, use of absolute radiometers, 16157
 Shock waves, second-order wave structure in supersonic flows, 16144
 Shoes, see Boots and shoes.
 Shore protection, effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
 Shuhj, Joseph L.:
 oceanographic observations North Atlantic Ocean—
 Station Bravo, 15155
 Station Echo, 15156
 Shultz, George P.:
 remarks—
 Sept. 29, 1969, 15998
 Oct. 2, 1969, 16003
 Siberia, Academy of Sciences, USSR, Siberian Division, study, 15965
 Siciliano, Rocco C.:
 addresses, etc.—
 Sept. 15, 1969, 15163
 Sept. 24, 1969, 15162
 Sept. 29, 1969, 15175
 Sight, visual acuity under water without a face mask, 16069
 Signals, control and guidance signals derived from optical fields, techniques for generation, 16146
 Silver (money):
 coinage act of 1969, proposed legislation (statement), 16517
 Simmons, Samuel J.:
 addresses, etc.—
 Sept. 6, 1969, 15822
 Sept. 24, 1969, 15843
Simulation:
 infrared heating simulation of Mach 4.63 flight on X-15 horizontal stabilizer, evaluation, 16165
 optical simulation of radio astronomy interferometer experiment, 16156
Simulation—Continued
 pyrolysis-gas flow through char layer during ablation, 16197
 Single persons, see Unmarried persons.
 Sintering, see Lime-soda sintering.
 Skilled trades, see Occupations.
 Sky, two-micron sky survey, preliminary catalog, 16150
 Slatick, Eugene R., mineral industry of Tunisia, 16088
 Sleep, autonomic response to auditory stimulation, 15019
 Slip laws, see Law.
 Slopes, and embankment foundations, stability analysis, electronic computer program, 16382
 Slota, Robert W., soil survey, Vernon County, Wis., 16439
 Small business, see Business.
 Small Business Administration, organization and operation, hearings, 15334
 Small Business, Select Committee on, House hearings, 15333-334
 Smelting, refining zinc-base die cast scrap using low-cost fluxes, 16106
 Smith, Harvey H., area handbook for Lebanon, 15049
 Smith, North, determining dynamic properties of snow and ice by forced vibration, 15039
Smithsonian Institution:
 appropriations, 1970, report, 15398
 contributions to botany, 16403
 contributions to zoology, 16404
 International Exchange Service, annual report, 16405
 Snow, Elliot, papers in Library of Congress, register, 16035
 Snow, J. Wendell, fall armyworm, use of virgin female traps to detect males and to determine seasonal distribution, 15005
Snow:
 attenuation of visible light by falling snow, 15038
 determining dynamic properties of snow and ice by forced vibration, 15039
 Federal-State-private cooperative surveys, Nevada, 16422
 Soapstone, minerals yearbook chapter, 16107
 Sobey, Francine, volunteer services in mental health, annotated bibliography, 16379
 Social and Rehabilitation Service, cooperative research and demonstration grants, 14973
Social security:
 act—
 amend, law, 15204
 medical assistance financed under public assistance titles, 16235
 benefits, employment of widowed mothers, facts, 16417
 Federal health insurance, Federal health insurance for the aged, rulings, 16413
 research and statistics notes, 16416-419
Social Security Administration:
 actuarial notes, 16409-410
 actuarial study series, 16411
 cooperative research and demonstration grants, 14973
 disclosure of official records and information, regulation, 16415
 HIR series, 16413
 regulation, 16415
 SSI series, 16420-421
Social welfare, see Social work and problems.
Social work and problems:
 civilian casualty, social welfare and refugee problems in South Vietnam, hearings, 15465
 research relating to children, studies in progress, 15124
 Social workers, public welfare personnel, 1968 annual statistical data, 16408
 Socialism, speeds scientific and technical progress, USSR study, 15983

INDEX

- Society, humane society or environmental chaos (remarks), 16348
- Sodium :
 - atom, multiphoton ionization, 15073
 - axial-flow pump in liquid sodium, cavitation damage and effect of fluid temperature on performance, 16202
- Software of change (address), 15176
- Soil Conservation Service, activities, 15000
- Soils :
 - fumigants to control spread of *Fomes anonus*, 15770
 - soil survey interpretations for woodlands in southern Coastal Plain and Black-belt areas of Arkansas, Louisiana, Oklahoma, and Texas, with average rainfall of 25 to 30 inches during frost-free period, 16440
 - soil survey reports—
 - Schoharie County, N.Y., 16438
 - Vernon County, Wis., 16439
- Solicitor, Interior Dept., appropriations, 1970, report, 15398
- Solid wastes, *see* Waste products.
- Solids, water containing in excess of 1,000 ppm of total dissolved solids in communities of over 1,000 population, 15859
- Solubility, enamel, reduction by stannous hexafluoroarsenate, 15017
- Somerset County, N.J., Beden Brook basin floods, extend and frequency, 15797
- Sonar, submarine, consideration of hi-fi ear-phones, 16065
 - see also* Echolocation (physiology).
- Sonic boom, aircraft noise and sonic boom research and development (paper), 15680
- Sorenson, Clara T., review of State labor laws enacted in 1968, 16011
- Sound :
 - acoustic-gravity waves in atmosphere, final program, 15670
 - diffraction of cylindrical hydroacoustical wave at junction of 2 semi-infinite plates, USSR study, 15952
 - effect of ocean bottom on sound generation by surface waves and dependence of sound velocity on depth, USSR study, 15929
 - phenomenological theory of loudness, 16173
 - physics of sound in the sea, 16318
- South Africa, canned deciduous fruit industry, 15747
- South America :
 - east coast, lights and fog signals, list, change, 16301
 - sailing directions, change, 16299
- South Dakota :
 - census of business, 1967, wholesale trade, area statistics, 15109
 - Missouri River basin streamflow characteristics in western Dakota tributaries, 16113
- South Korea, *see* Korea.
- South Platte River and Valley, Colorado, floods of June 1965, 15816
- South Vietnam, *see* Vietnam.
- Soviet Union, *see* Union of Soviet Socialist Republics.
- Soybeans :
 - official grain standards of United States, revised pages, 15483
 - U.S. soybean market in Republic of China (Taiwan), 15746
- SP series, *see* Federal Maritime Commission—Maritime Administration—National Aeronautics and Space Administration.
- Space :
 - planning and layout for offices, guide, 16334
 - time correlations and power and cross-spectra of surface fluctuating pressures, 16185
 - see also* Outer space.
- Space biology, problems, biological effect of radiation, etc., 16207
- Space cabins, *see* Spacecraft.
- Space capsules, *see* Spacecraft.
- Space flights, *see* Astronautics.
- Space Medal of Honor, award to astronauts, hearing, 15328
- Space missions, approximation to statistics of midcourse velocity corrections, 16159
- Space navigation, *see* Navigation.
- Space radiators, *see* Radiators (spacecraft).
- Space suits, heat pipe devices for temperature control, 16127
- Spacecraft :
 - life support systems and cabin habitability, study of astronaut's capabilities to maintain in weightless conditions, 16130
 - Mars entry capsules, synthesis of optimum structural designs for conical and tension shell, 16121
- Spain, loan of vessels, U.S.S. Converse and U.S.S. Kraken, agreement, 16482
- Spanish Fort, Ala., motor carrier accident, 16115
- Specific gravity, unstimulated human parotid fluid, 15021
- Specifications, *see* Government supplies—*also* subjects.
- Spectra :
 - analyses of optical atomic spectra, bibliography, 16225
 - infrared horizon observations, inference of stratospheric temperature and moisture profiles, 16135
 - molecular vibration spectra from field emission energy distributions, 16174
 - power and cross-spectra and space-time correlations of surface fluctuating pressures, 16185
- Spectroscopy, study of helium arc, 16162
- Speed :
 - speed-related accident countermeasures and their priorities, 16245
 - use of effective speed as evaluation criterion on highways, network analysis series, 16387
- Speirs, Neil P., nomination, hearing, 15475
- Spheres, tabulations of configuration factors between any 2 spheres and their parts, 16151
- Spiers, Emmett F., supplementary report on income in 1967 of families and persons in United States, 15117
- Spilsbury Calvin C., U.S. soybean market in Republic of China (Taiwan), 15746
- Spin (aircraft) :
 - flat-spin characteristics of twin-jet, swept-wing fighter airplane, analysis, 16166
- Spinal cord, dorsal column system, anatomy, physiology, phylogeny and sensory function, updated review, 16253
- Spokane, Wash., area wage survey, 16020
- Sport fisheries, *see* Fish and fisheries.
- Sport Fisheries and Wildlife Bureau :
 - accident control report, annual, 16441
 - appropriations, 1970, report, 15398
 - circulars, 16442
 - refuge leaflets, 16443-455
 - resource publication (series), 16456
 - special scientific reports, wildlife series, 16457-458
- Springer, Edward L., control of pulp chip deterioration with kraft green liquor, 15764
- Spruce, white, Alaska, regeneration, literature review, 15775
- SSI series, 16420-421
- Stability :
 - and equilibrium of high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory, 15062
 - slopes and embankment foundations, electronic computer program, 16382

- Stability—Continued
 stability of inhomogeneous hot plasma flow, 15065
 stability of nonuniform electron beams and problem of current limits in accelerators, 15067
 Stability of aircraft, fluidic vortex valve servomotor development, 15056
 Stability of spacecraft, electrothermal instabilities, effect on Brayton- and Rankine cycle magnetohydrodynamic space-power generation systems, 16195
 Stabilizers (airplanes), *see* Airplanes.
 Stainless steel, thin AISI 301 60-percent cold-reduced sheet at various angles to rolling direction, cryogenic fracture properties, 16168
 Stamps, *see* Migratory-bird-hunting stamps.
 Standard method for 1-inch dynamic tear test, 16314
 Standards and standardization:
 Federal standards, 15736
 military standards, 15527-530
 standards for granting Federal charters to nonprofit corporations, 15469
 technical standards training guides, 15709
 see also subjects.
 Stannous fluoride, treatment, patient acceptance, 16063
 Stannous hexafluoroantimonate, use in reduction of enamel solubility, 15017
 Stans, Maurice H.:
 addresses, etc.—
 Sept. 10, 1969, 15173
 Sept. 17, 1969, 15174
 Sept. 19, 1969, 15160
 Oct. 1, 1969, 15159
 Oct. 2, 1969, 15161
 Staples and stapling machines, staples, Federal item identification guide, change, 15510
 Stars, two-micron sky survey, preliminary catalog, 16150
 State bonds, State and local bond interest, tax reform hearings, summary of testimony, 15347
 State Department:
 Assistant Secretary for Administration, nomination of Francis G. Meyer, hearing, 15454
 background notes, 16459-461
 centrex telephone directory, 16462
 Government owned and leased real property overseas, improvements needed in management, GAO report, 15782
 Under Secretary for Administration, nomination of William B. Macomber, jr., hearing, 15454
 State postal map series, 16332
 Statements, *see* Addresses, lectures, etc.
 States:
 cooperative State-Federal research in agriculture and forestry, 14989
 Federal grants, programs, study of major characteristics, 15456
 forest fire control, cooperative program financing, 15751
 governments, Federal Government should grant annually specific percentage of its income tax to State governments, national debate topic for high schools, 1969-70, selected excerpts, etc., 15224
 help for children and families, 15122
 labor laws enacted in 1968, review, 16011
 postal maps, 16332
 tax revenue, quarterly summary, 15120
 workmen's compensation laws, mining industry employees' coverage and benefits, encourage improvement, 15311
 Statistics, programs for computing multiple correlations and related statistics, 16059
 see also Regression (statistics)—Time series—*also* subjects.
 Stators, highly loaded turbine stator blading, annular cascade sector, experimental investigation, 16137
 Statutes, *see* Law.
 Steady state, *see* Equilibrium.
 Steamships, lines in foreign commerce of U.S., approved conference, rate and inter-conference agreements, 15710
 Steel:
 high-strength low-alloy steel weldments for cargo ship hulls, study of factors which affect adequacy, 16400
 iron and steel scrap, use in extraction of copper from oxides, principles and application to pure systems, 16101
 Steinhart, John S., universities and environmental quality, commitment to problem focused education, report, 16399
 Stellarators, stellarator L-1, quasi-steady electric fields and plasma oscillations, studies, 15066
 Stenographers, examination, sample questions, 15150
 Step into your future, 15051
 Steps to the moon, 15808
 Stereographic projections, computer plotted, 16315
 Stereoscopic perception, *see* Perception.
 Stevens, Richard F., jr.:
 columbium and tantalum, 16074
 tungsten, 16110
 Stills, code of Federal regulations, 15875
 Stillwater Wildlife Management Area, general information, 16455
 Stimulus, visual stimuli as example of solution of abstract problems by bees, generalization, USSR study, 15990
 Stock catalogs, *see* Catalogs.
 Stockpiling, *see* Strategic materials.
 Stocks, deferred executive compensation, tax reform hearings, summary of testimony, 15342
 see also Securities.
 Stone, James H., crisis fleeing, original reports on military medicine in India and Burma in Second World War, 15061
 Stone County, Ark., community profile, 15605
 Stoneville, Miss., gin-stand research, 15007
 Stony Creek, upper basin, in eastern flank of Coast Ranges of northern Calif., sedimentation, 15815
 Storage:
 Air Force Manual, 15009
 Army technical manual, change, 15053
 extended high-temperature storage, effects on performance characteristics of several strain gage pressure transducers, 16231
 see also names or classes of articles stored.
 Strain gages, pressure transducers, effects of extended high-temperature storage on performance characteristics, 16231
 Strains and stresses:
 buckling of shells of revolution with various wall constructions, errata, 16120
 increasing end constraint on compressive strength of model rock pillars, effect, 16098
 meta-benzenedisulfonic acid as stress-reducing additive in Watts nickel electroplating bath, evaluation, 16152
 stress concentration around broken filament-stiffened sheet, 16191
 tensile and stress-rupture properties of Ti-6Al-4V titanium-alloy sheet, effect of hot-salt stress-corrosion cracking, 16170
 tension wood effect on hard maple used for manufactured parts, 15763
 titanium and titanium-base alloys, effect of nuclear radiation at cryogenic temperatures on tensile properties, 16186
 see also Poisson's ratio.
 Straker, E. A., proceedings of special sessions on gamma-ray production and transport and on civil defense shielding, 15074

INDEX

- Strapdown, *see* Inertial guidance.
- Strategic materials, disposal of lead from national and supplemental stockpile, law, 15195
- Strategy *see* International relations—Military art and science.
- Stratosphere, inference of temperature and moisture profiles from observations of infrared horizon, 16135
- Streams, *see* Rivers.
- Streets, omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
- Strength of materials, increasing end constraint effect on compressive strength of model rock pillars, 16098
see also names of materials and articles.
- Stresses, *see* Strains and stresses.
- Strobel, John J., unit-load explosion in food industry, 15768
- Strong, James P., III, optical simulation of radio-astronomy interferometer experiment, 16156
- Structural design, *see* Architecture.
- Structural shapes, nonmetallic, Federal item identification guide, 15517
- Structures, *see* Earthwork and structures.
- Students:
emergency insured student loan act of 1969, reports, 15249, 15368
financial assistance, hearings, 15312–313
higher education act of 1965, amend, report, 15368
- Students for a Democratic Society, activities, investigation, George Washington University, hearings, 15322
- Stuffing tubes and components, Federal item identification guide, errata, 15518
- Submarine boats:
hi-fi earphones for sonar watch, consideration, 16065
medical officer candidates for services, background and motivational characteristics, 16068.
- Submarine Medical Center, *see* Naval Submarine Medical Center.
- Submarines, *see* Submarine boats.
- Suburbs, population trends, hearings, 15309
- Subversive activities, *see* Un-American activities.
- Suction and pressure apparatus, portable clinical suction device for use in hyperbaric chambers, 16064
- Sugar, marketing quotas established by Sugar act of 1948, as amended, administration by Agricultural Stabilization and Conservation Service, GAO report, 15777
- Sugar maple, *see* Maple.
- Suleide, among American Indians, workshops, Aberdeen, S. Dak., and Lewistown, Mont., 16372
- Sulfur oxides, air quality criteria, 16357
- Sulfuric acid, 2-(1-decylamino) ethanethio-sulfuric acid, pharmacodynamics of radioprotective drug, 15020
- Sullivan, Billy R., study of vibration of concrete, mechanical impedance measurements, 15667
- Superconductivity, high-temperature problems, USSR study, 15988
- Supervision, *see* Supervisors.
- Supervisors, supervising the hard core, management guidelines, 16004
- Supplies, *see* Government supplies—Military supplies.
- Supreme Court, Associate Justice, nomination of Clement F. Haynsworth, Jr., 15466
- Surface water, *see* Water.
- Surfaces:
blade-to-blade stream surface of turbomachine, FORTRAN program for calculating transonic velocities, 16176
- Surfaces—Continued
fluctuating pressures at Mach numbers between 1.6 and 2.5, power and cross-spectra and space-time correlations, 16185
surface vehicle dynamics, experimental verification, 16126
suspended surface coating for heat shielding, USSR study, 15918
- Surfacing materials, suspended surface coatings for heat shielding, USSR study, 15918
- Surgeon General, *see* Public Health Service.
- Surplus military property, *see* Surplus property.
- Surplus property:
defense disposal manual, change, 15494
donations to public museums, permit, report, 15401
Federal property and administrative services act, amend, report, 15401
- Surveys, *see* subjects of surveys.
- Survival, crash survivability, 16244
- Survivor's benefits, social security statistics, monthly, 16414
- Sussex County, Del., community profile, 15606
- Swain, F. M., biogeochemistry of Delta-Mendota Canal, Central Valley project, Calif., 16393
- Switches, *see* Electronic switches.
- Symposiums:
neoplasms and related disorders of invertebrate and lower vertebrate animals, 16258
nuclear metallurgy, reprocessing of nuclear fuels, 15075
warm fog properties and modification concepts, progress of NASA research, proceedings, 16148
- Synthesis:
functional synthesis of radio engineering, microelectronic equipment components, USS study, 15940
new membrane candidates for application in reverse osmosis, 15857
- Synthetic organic chemicals, *see* Organic compounds.
- Systems:
fuzzy systems, theory, 16139
management systems, regulation and control, USSR study 15898
safety program for systems and associated subsystems and equipment, requirements, military standard, 15527
shakedown test, aircraft, NAS en route stage A model 1, functional package A, flight data processing, 15693
solid waste management in Fresno area, final report on solid waste management demonstration, 16273
see also names or types of systems, e.g. Electronic data processing systems.
- Systems Research and Development Service, report RD series, 16488–492

T

- T.V.A., *see* Tennessee Valley Authority.
- Tables (compilation), *see* technical, scientific, and economic subjects.
- Tables (mathematics), *see* Periodic systems.
- Tabulation, *see* subjects of tabulation.
- Tacks, Federal item identification guide, change, 15510
- Taft, W. H., National Historic Site, *see* William Howard Taft National Historic Site.
- Taiwan:
economic relations (address), 15162
economic trends and their implications for United States, 15877
U.S. soybean market, 15746
- Talc, minerals yearbook chapter, 16107
- Talented children, *see* Children.

Tampa Harbor :
 Port Sutton, Fla., channel improvements—
 departmental edition, 15662
 document edition, 15220

Tankers, tank vessels, rules and regulations,
 15158

Tantalum :
 alloys, statistical analysis of high tempera-
 ture creep-rate data, 16175
 minerals yearbook chapter, 16074
 tantalum-base T-111 alloy at elevated
 temperature, mechanical behavior, 16143

Tappan, Donald V., carbonic anhydrase anal-
 yses on blood of subjects exposed to
 helium-oxygen environment at 7 atmos-
 pheres pressure, 16061

Targets, plane motion of bats toward and
 nature of changes of echolocative signals
 in process of target selection and recogni-
 tion, USSR study, 15902

Tariff :
 customs regulations, exporting to United
 States, 15490
 letters received, 1833-69, from collectors
 of customs, 16215
 schedules annotated, supplement, 16494

Task Force on Prescription Drugs, report of
 Secretary's Review Committee, 15821

Tax Court :
 appropriations, 1970, report, 15281
 reports (decisions), bound volume, 16496

Tax Division, Justice Dept., opportunities for
 attorneys, 15993

Taxation :
 bank's role (remarks), 16514
 double, convention with Netherlands, text,
 etc., 15354
 economics of the tax bill (remarks), 16511
 interest equalization tax, temporary ex-
 tension, law, 15213
 minimum and maximum taxes, tax reform
 hearings, summary of testimony, 15344
 quarterly tax reports, 15120
 single persons and married couples, tax
 reform hearings, summary of testimony,
 15348
 tax policy (remarks), 16515
 tax reform act of 1969—
 report, 15242
 print additional copies, report, 15247
 summary, report, 15338
 supplementary report, print additional
 copies, report, 15248
 technical memorandum of Treasury posi-
 tion, 15448
 testimony and additional statements,
 15434-447
 Treasury Department statements and
 recommendations, hearings, 15449
 tax reform hearings, testimony, sum-
 mary—
 allocation of deductions, 15339
 bad debt reserves of commercial banks,
 15340
 capital gains 15341
 deferred executive compensation, 15342
 depletable resources, 15343
 extension of surcharge and repeal of
 investment credit, 15350
 minimum and maximum taxes, 15344
 standard deduction, 15345
 State and local bond interest, 15347
 subchapter S corporations, 15346
 tax surcharge extension, 15350
 taxation of single persons and married
 couples, 15348
 treatment of tax depreciation by regula-
 tory agencies, 15349
 unemployment tax, collection to be in
 quarterly installments, etc.—
 law, 15201
 report, 15239

Taxation—Continued
see also Employment taxes—Income tax—
 Revenue—*also* names of articles, etc.,
 subject to tax.

Taxiways (aeronautics) :
 three-track runway and taxiway profiles
 measured at international airports A
 and B, 16187

Taylor, John K., Microchemical Analysis
 Section, summary of activities, 16233

Taylor Slough, Everglades National Park,
 Fla., effects on mineralized artesian water
 on freshwater biota, 15795

Teachers :
 drug abuse education workshop, how to
 plan, 16347
 opportunities abroad for teachers, teach-
 ing, seminars, exchange, 15642

Technical bulletins, Agriculture Depart-
 ment, 15007

Technical education, annual report, 15644

Technical manuals :
 Army Department, 15052-53
 technical inspection manual, quality con-
 trol chart technique, 16309

Technical memorandums :
 Coastal Engineering Research Center,
 15648
 Environmental Science Services Adminis-
 tration, 15673

Technical notes :
 National Aeronautics and Space Adminis-
 tration,
 National Bureau of Standards, 16227-234

Technical reports :
 Army Aviation Materiel Laboratories,
 15055-58
 Civil Defense Office, 15133
 Cold Regions Research and Engineering
 Laboratory, 15039, 15651
 Environmental Science Services Adminis-
 tration, 15674-675
 highway planning, 16387
 National Aeronautics and Space Adminis-
 tration, 16203-206
 School of Aerospace Medicine, 15017-21
 Waterways Experiment Station, 15667-
 668

Technical translations, National Aeronau-
 tics and Space Administration, 16207-210

Technicians, science and engineering, oppor-
 tunities as technical aids, examination
 announcement, 15145
see also Agricultural research techni-
 cians—Biological laboratory technicians.

Technology :
 assessment of Vietnam defoliant matter,
 case history, 15331
 Latvia's future scanned, 15917
 NASA scientific and technical information
 system, and how to use it, 16147
 science, technology, and public policy,
 government-science relationships during
 90th Congress, 1st and 2d sessions,
 15330
 scientific-technical progress tempo re-
 viewed, USSR, 15976
 scientific-technical revolutions, USSR
 comments, 15955
 socialism speeds scientific and technical
 progress, USSR study, 15983
 Soviet prizes, 15909
 technical standards training guides, 15709
see also subjects.

Teeth :
 enamel solubility reduction by stannous
 hexafluoroarsenate, 15017
 personal factors in dental disease pre-
 vention, test to measure dental health
 knowledge, 16067
see also Dentistry.

Telecommunication, facility on Norfolk
 Island to study ionospheric propagation
 in relation to long range radio paths,
 agreement with Australia, 16472

Telemechanics, automation and telemechan-
 ics, translations, USSR study, 15953

INDEX

- Telephone, directory centrex telephone directory, State Department, International Development Agency, Arms Control and Disarmament Agency, 16462
- Telephone carriers, annual statistics, 15698
- Television:
- broadcast licenses, applications for renewal, establish orderly procedures, hearings, 15428
 - handbook for extension workers, you're on camera in color, 15002
 - public broadcasting act of 1967, amend, report, 15259
- Television and Social Behavior, Scientific Advisory Committee on, *see* Scientific Advisory Committee on Television and Social Behavior.
- Television camera, *see* Camera.
- Temperature:
- control, heat pipe devices for space suit, 16127
 - elevated, mechanical behavior of tantalum-base T-111 alloy, 16143
 - fluid, and cavitation damage, effect on performance of axial-flow pump in liquid sodium, 16202
 - high—
 - cesium vapor thyristors, reduction of recovery time, 16133
 - chemistry and physics of materials, bibliography, 16226
 - creep-rate data for alloys of tantalum, molybdenum, and columbium, 16175
 - oxidation protection of tungsten, 16210
 - plasma physics research, USSR study, 15984
 - superconductivity problems, USSR study, 15988
 - stratospheric temperature and moisture profiles, inference from observations of infrared horizon, 16135
 - thermal pollution effects on river ice conditions, simple method of calculation, 15649
- Tenants, *see* Landlords and tenants.
- Tennessee:
- electric rate book, 15724
 - land conveyance to, law, 15205
- Tennessee River and Valley, quality environment in Tennessee Valley, 16501
- Tennessee Valley Authority:
- appropriations, 1970, report, 15298
 - forestry—
 - bulletin, 16498
 - publications, list, 16500
 - power, 1969, annual report, 16499
 - TVA fertilizer science for the Nation, 16502
- Tension, *see* Strains and stresses.
- Terminal boards, Federal item identification guide, change, 15521
- Terrestrial magnetism, geomagnetic data, International Indian Ocean Expedition, 1964, USCGS ship Pioneer, 15151
- Territories Office, appropriations, 1970, report, 15398
- Test chambers, portable clinical suction device for use in hyperbaric chambers, 16064
- Testing, *see* names of substances or objects tested.
- Tests, *see* types or names of tests.
- Tetanus, immunity in USSR population, 15957
- Texas:
- postal map, western section, 16332
 - southern Coastal Plain and Blackbelt areas, soil survey interpretations for woodlands, 16440
- Textile machinery, trends, 1964-68, 15088
- Textiles:
- import problem, our need is so great, our objective so reasonable, our resolve so determined (remarks), 15166
 - labor in textile and apparel industries, 16025
- Thailand, economic trends and their implications for United States, 15883
- Therapeutics, *see* Chemotherapy.
- Thermal conductivity, *see* Heat transfer.
- Thermal environment, *see* Environment.
- Thermal pollution, effects on river ice conditions, simplified method of calculation, 15649
- see also* Water pollution.
- Thermal properties, comprehensive program for compilation and analysis of thermal radiative properties data, 16138
- Thermodynamics, thermodynamic properties of nitrogen and helium, and real-gas effects in critical flow through nozzles, errata, 16149
- Thermometers, precision of quartz crystal and mercury differential thermometers in heat-of-hydration test, 15665
- Thin films, ultrathin films and cellulose acetate membranes for reverse osmosis, characterization, 15860
- This is operation breakthrough, 15844
- Thomas, Ella C., reports of Tax Court 16496
- Thomas Jefferson Memorial general information 16278
- Thompson Theos J.:
- remarks—
 - Sept. 15, 1969, 15081
 - Oct. 9, 1969, 15080
- Thorium:
- distribution in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
 - use in nuclear power reactors, civilian nuclear power, 15077
- Thresholds (perception):
- differential thresholds for motion in periphery, 16145
- Thrustors, *see* Ion thrustors.
- Thyristors:
- high-temperature cesium-vapor—
 - development and inverter testing, 16142
 - recovery time reduction, 16133
- TIAS, series, 16472-482
- Tiber Dam, auxiliary outlet works, 16394
- Tides, current tables, 1970, Atlantic Coast of North America, 15153
- Tilling, Robert I., distribution of thorium, uranium, and potassium in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
- Time, space-time correlations and power-and cross-spectra of surface fluctuating pressures, 16185
- Time deposits, higher reserve requirements, extend act, report, 15376
- Time series, regression analysis of freight and passenger transport demand to 1980, 16509
- Time to serve them, employ/re-employ veterans, 16005
- Tin, minerals yearbook chapter, 16108
- Tires:
- defective, require notification to purchasers—
 - hearings, 15427
 - report, 15253
 - scrap, destructive distillation, 16102
- Titanium:
- minerals yearbook, chapter, 16109
 - tensile properties of titanium and titanium-base alloys, effect of nuclear radiation at cryogenic temperatures, 16186
 - TI-6Al-4V titanium-alloy sheet, hot-salt-stress, corrosion cracking and its effect on tensile and stress-rupture properties, 16170

Tobacco:
 flue-cured tobacco industry, potential, mechanization, with emphasis on human resource adjustment, 15618
 tobacco marketing problems (address), 14983
Tobago, see Trinidad and Tobago.
Tomatoes, agricultural adjustment act, amend, report, 15394
Tonkin, Joe, you're on camera in color, television handbook for extension workers 15002
Toroids, closed toroidal systems, method of external injection of electrons into, 15072
Tourist trade, tourism business (remarks), 15175
Toward job equality for women, 15677
Towing, towing vessel safety and accident preventive recommendations, study, 16288
Toxins, toxic agents, 15943
Toys:
 child protection act of 1969, reports, 15228, 15252
 hazardous, protect children from, under Federal hazardous substance act, reports, 15228, 15252
Tracer studies:
 radioisotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
 radiotracer procedures for mechanistic studies in air pollution research, 16103
Tracking, control guidance signals derived from optical fields, techniques for generation, 16146
Trade, see Commerce—also names or classes of commodities.
Trademarks:
 decisions, yearly, 1968—
 departmental edition, 16321
 document edition, 15218
Trades, see Occupations.
Traffic, geometric and traffic characteristics of interstate system, relationship to accidents, analysis and modeling, 16380
 see also Safety of life.
Traffic control, see Air traffic.
Traffic safety, see Safety of life.
Trailer parks, mobile homes and parks, bibliography, 16401
Trailers:
 mobile homes and parks, bibliography, 16401
 mobile homes, financing purchase with FHA loans, hearings, 15421
Train, Russell E., remarks, Sept. 22, 1969, 15851
Training:
 building maintenance man, suggested guide for training course, 15634
 skilled craft, apprentice training, sure way, 15029
 technical standards training guides, 15709
 see also subjects.
Trans World Airlines, Inc., aircraft accident, 16285
Transducers, strain gage pressure transducers, effects of extended high-temperature storage on performance characteristics, 16231
Transformers, see Electric transformers.
Transistors, performance in intense magnetic fields, 16177
Translations, technical, National Aeronautics and Space Administration, 16207-210
Transmission, ESSA direct transmission system users guide, 15671
Transplantation (physiology):
 immunology research collaborative program of National Institute of Allergy and Infectious Diseases, 16266

Transportation:
 Army regulation, 15035
 evaluating urban transportation systems, 16386
 National Defense Executive Reserve seminar conference, proceedings, 16505
 statistics in United States, 15895
 transportation and travel, freight descriptions and suffixes, Army regulation, 15034
 transportation forecast series, 16509
 transportation forecast time series, regression analysis of freight and passenger transport demand to 1980, 16509
Transportation Department:
 annual report, 16508
 Secretary's Office, regulations, 16506-507
 urban mass transportation administration, progress report, 15422
 what, where, how it buys, 16510
Traps, see Insect traps.
Travel:
 air travel clubs using large airplanes, certification and operations, Federal aviation regulations, 15686
 Army regulation, 15035
 business (remarks), 15175
 future of travel (address), 15163
 Government and travel's future (remarks), 15130
 joint regulations, Defense Dept., civilian personnel, 15525
 pleasure and business visitors to U.S., mode of travel and port of entry, 16519
 travel and transportation, freight descriptions and suffixes, Army regulation, 15034
 visit USA program (remarks), 16520
Trays, ash receivers, tobacco, Federal standard, 15736
Treasury Building, historical highlights, 16513
Treasury Department:
 appropriations, 1970, report, 15281
 foreign exchange operations, 15733
 internal audit activities, GAO review, 15787
Secretary—
 letters and reports received from special agents, pamphlet to accompany microcopy, 16217
 letters received, from collectors of customs, pamphlet to accompany microcopy, 16215
 letters sent to collectors of customs at Pacific ports, 1850-78, pamphlet to accompany, microcopy, 16216
Treaties:
 treaties and other international acts series, 16472-482
 treaties and other international agreements, 16484-485
Trees:
 chemical control, 14991
 Jost Van Dyke, British Virgin Islands, description, etc., list, 15766
 survival and growth on fescue-covered spoil banks, 15757
Tribus, Myron, address, Sept. 23, 1969, 15176
Trichlorometaphos, methods of analyzing in aerosol containers and in air, USSR study, 15954
Trigonometry, accurate strapdown direction cosine algorithm, 16160
Trimble, George R., Jr., form recovery by understory sugar maple under uneven-aged management, 15756
Trinidad and Tobago, Peace Corps volunteers, agreement, 16477
Troposphere, tropospheric pulse propagation, 15675
Trouse, Albert C., Jr., nyctitropic movement as false wilt symptom of cotton, 14974
Trucks, see Motortrucks.
Trusses, trussed rafters, design criteria, 15827

Trust funds, *see* Trusts and trustees.
 Trust Territory of Pacific Islands, appropriations, 1970, report, 15398
 Trusts and trustees, trust funds for educational scholarships, etc., employer contributions, report 15283
 Tubes:
 metallic, Federal item identification guide, change, 15511
 stuffing tubes and components, Federal item identification guide, errata, 15518
 tubes and tubing assemblies, Federal item identification guide, change, 15505
 see also Shock tubes.
 Tule Lake Irrigation District, durum wheat acreage allotments, report, 15395
 Tumors:
 hematopoietic neoplasms, comparative morphology, 16259
 neoplasms and related disorders of invertebrate and lower vertebrate animals, 16258
 Tungsten:
 high temperature oxidation protection, 16210
 minerals yearbook chapter, 16110
 Tunisia, mineral industry, minerals yearbook chapter, 16088
 Tunnels, unreinforced concrete linings, structural design data, 16097
 Turbine blades, *see* Blades.
 Turbines, turbomachine, FORTRAN program for calculating transonic velocities of blade-to-blade stream surface, 16176
 Turbojet aircraft, *see* Airplanes.
 Turbomachines, *see* Turbines.
 Turbulence:
 boundary layer, function of stenoid apparatus of fish in presence, USSR study, 15963
 hypersonic turbulent nozzle-wall boundary layers, comparison of prediction methods and studies of relaxation, 16181
 Turkey:
 foreign trade regulations, 15169
 plant quarantine import requirements, 14979
 Turmeque, Colombia, phosphate occurrence, 15793
 Turnbow, J. W., crash survival design guide, 15058
 Tursiops truncatus, *see* Dolphins.
 Tuto, Greenland, 50-man winter camp, design and construction, 15651
 TVA, *see* Tennessee Valley Authority.
 Two-micron sky survey, preliminary catalog, 16150
 Typists, examination, sample questions, 15150

U

U.S.D.A., *see* Agriculture Department.
 U.S. Diplomatic Courier Service, 50th anniversary commemorative medals, law, 15196
 U.S.S.R., *see* Union of Soviet Socialist Republics.
 Uganda, economic trends and their implications for United States, 15887
 UH-1B, *see* Helicopters.
 Ukrainian Academy of Sciences, activities, 15912
 Ukrainian Soviet Socialist Republic:
 Academy of Sciences, newspaper articles, 15969
 Ukrainian scientists work for the people, USSR study, 15939
 Umatilla Reservation, Confederated Tribes of Umatilla Indian Reservation judgment funds, disposition, report, 15257
 Un-American activities, Students For a Democratic Society, hearings, 15322
 Uncle Sam counts, story of census '70, 15164
 Underdeveloped areas, challenge of development, foreign aid, its uses, etc., 15892

Underwater sound, *see* Sound.
 Underwater vision, *see* Sight.
 Unemployed:
 Federal unemployment tax, collection to be in quarterly installments, etc.—law, 15201
 report, 15239
 multi-troubled jobseeker, case of jobless worker with convulsive disorder, 16000
 unemployment, New York City, facts, 16029
 Unemployment compensation, *see* Unemployment insurance.
 Unemployment insurance:
 District of Columbia act, public international organizations, exempt, report, 15382
 employment security amendments, Treasury Department views (statement), 16516
 Unified form of Lambert's theorem, 16158
 Uniform system of accounts of class 1 and class 2 common and contract motor carriers of property, 15896
 Union County, Ark., community profile, 15607
 Union of Soviet Socialist Republics:
 Academy of Agricultural Sciences, recent proceedings, 15942
 Academy of Medical Sciences, roster of nominees for membership, 15903
 Academy of Sciences, experiments with electronic techniques, 15971
 all Union conference on game theory, 15907
 budget provides for research and defense, 15916
 Central Institute for advanced training of physicians, 15959
 electronic industry, survey, Japanese study, 15925
 foreign relations of U.S., diplomatic papers—
 departmental edition, 16466
 document edition, 15216
 medical conferences, 15910
 national economy, structure, study, 15922
 public health—
 planning, financing in Soviet public health, 15932
 work of government and research organizations, study, 15968
 radio terminology, inadequacies discussed, 15958
 selections from metals journal, 15982
 Soviet prizes in science and technology, 15909
 strategic survey, bibliography, 15048
 tetanus immunity in population, studies, 15957
 Unit-load explosion in food industry, 15768
 United Kingdom of Great Britain and Northern Ireland, *see* Great Britain.
 United Nations, European Office, U.S. Representative, nomination of Idar Rimestad, hearing, 15454
 United Nations Economic Commission for Africa, useful market surveys and industry reports issued, supplement, 15170
 United States:
 NOTE.—For all subjects pertaining to the United States, except its government, general history, and description, *see* such subjects.
 recognition of foreign governments, expressing sense of Senate, report, 15358
 United States code, *see* Codes of law.
 United States National Commission for UNESCO, memo, 16483
 United States Park Police, *see* Police.
 Universities, *see* Colleges and universities.
 Unmarried persons, taxation of single persons, tax reform hearings, summary of testimony, 15348

Uranium, distribution in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
 Urban areas, *see* Cities and towns.
 Urban life, *see* Cities and towns.
 Urban policy, *see* Redevelopment (city planning, etc.).
 Urban renewal, *see* Redevelopment (city planning, etc.).
 Urinary organs, prevent urinary tract infections in your hospital, 16366
 Uruguay, economic trends and their implications for United States, 15879
 USDA, *see* Agriculture Department.
 USSR, *see* Union of Soviet Socialist Republics.
 Utah:
 census of business, 1967—
 selected services, area statistics, 15096
 wholesale trade, area statistics, 15110

V

VA, *see* Veterans Administration.
 Vacher, Carole D., comprehensive community mental health center, annotated bibliography, 16338
 Vacuum pumps, *see* Pumps.
 Valves:
 fluidic vortex valve servoactuator development, 15056
 regulating, general information, Federal item identification guide, 15522
 special valves, Federal item identification guide, 15516
 Van Buren County, Ark., community profile, 15608
 Van Deusen, B. D., experimental verification of surface vehicle dynamics, 16126
 Van Dusen, Richard C.:
 remarks—
 Sept. 23, 1969, 15840
 Oct. 3, 1969, 15839
 Vapor pressure, metal halides, 16105
 Vapor-deposition, *see* Vapor-plating.
 Vapor-plating, vapor-deposited materials, evaluation of technique for measuring ion energy loss, 16179
 Vapors, high temperature cesium vapor thyristors, reduction of recovery time, 16133
 Variables (mathematics):
 estimation of variance by recursive equation, 16198
 Vectors (mathematics):
 probability density functions of n vectors added with random directions, 16316
 Vegetables, processed, plants under USDA continuous inspection, list, 15481
 Vehicles:
 economic assistance funds improperly used to finance for defense requirements, International Development Agency, GAO report, 15778
 maintenance at non-personnel offices, facilities handbook, 16327
 surface vehicle dynamics, experimental verification, 16126
 see also Motor vehicles.
 Velocity:
 approximation to statistics of midcourse velocity corrections, 16159
 jet velocity and axial location of nozzle exit, effect on performance of twin-jet afterbody model at Mach numbers up to 2.2, 16161
 sound in water, dependence on depth, and sound generation by surface waves considering bottom reflections, USSR study, 15929
 transonic, on blade-to-blade stream surface of turbomachine, FORTRAN program for calculating, 16176

Ventana Wilderness in California, designate as wilderness area, proposal law, 15206
 Venus (planet):
 radiophysical investigations, 16298
 Verdigris River, lock and dam no. 17, designate Chouteau Lock and Dam, report, 15370
 Vermont, census of business, 1967 selected services, area statistics, 15037
 Vernon County, Wis., soil survey report, 16439
 Vertebrates, lower, neoplasms and related disorders, 16258
 Vessels, *see* Fishing vessels—Ships.
 Veterans:
 benefits, contact representatives, handbook, 16521
 disabled, nursing home care, extend, hearings, 15476
 education and training programs increase benefits, amend U.S. code, hearings, 15472
 employ/re-employ, time to serve them, 16005
 home loans, authority to set interest rates on mortgages, extend, reports, 15268, 15284
 now, about that job, ABC's for veterans, 16525
 servicemen's group life insurance—
 dismemberment insurance coverage, amend U.S. Code, report, 15381
 double indemnity coverage, amend U.S. Code, report, 15380
 Vietnam era, life insurance program, report, 15378
 see also Life insurance.
 Veterans Administration:
 contact representatives, handbook, 16521
 handbook series, 16521
 home loan program, hazardous geologic areas, report, 15244
 hospital and medical care program, hearings, 15476
 insurance field offices, savings available through consolidation, GAO report, 15789
 internal audit activities, need to improve and relocate, GAO report, 15784
 manuals, 16523
 national service life insurance modified life, information about conversion and premium rates, holders in V, RS, W, H, and RH programs, 16524
 nursing home care program, need for improvements in administration, GAO report, 15783
 Office of the Chief Attorney, operating procedures, 16523
 pamphlets, 16524
 Veterans Administration Center, Fort Harrison, Mont., real property, cede to Montana concurrent jurisdiction with United States, law, 15194
 Veterans' Affairs Committee, House:
 hearings, 15335-336
 report, 15268
 Veterans hospitals, VA hospital and medical care program, hearings, 15476
 Veterans pensions, *see* Pensions.
 VFR, *see* Visual flying rules.
 Vibration:
 concrete, mechanical impedance measurements, study, 15667
 determining dynamic properties of snow and ice by forced vibration, 15039
 molecular vibration spectra from field emission energy distributions, 16174
 non-Newtonian gelled fluids as shock- and vibration-isolation medium, feasibility study, 15055
 Vice President of United States, election, by direct popular vote, amend U.S. Constitution, proposal, reports, 15227, 15229
 Victory and occupation, history of Marine Corps in World War II, 16042

INDEX

- Vietnam:
 Republic—
 agricultural commodities, agreements, 16475, 16478
 basic data, 16463
 civilian casualty, social welfare and refugee problems, hearings, 15165
 environmental effects of defoliation, technology assessment, 15331
 war operations, report, index, 15044
 veterans, life insurance program, report, 15378
 war report, index, 15044
 Vietnam, South, *see* Vietnam.
 Vinifera, *see* Grapes.
 Violence, Puerto Rico, Communist threat to U.S., hearings, 15467
 Virginia, census of business, 1967, retail trade, area statistics, 15090
 Viruses:
 chemical therapy in virus infections, certain problems, USSR study, 15938
 endemic viral infections, USSR research, 15986
 Viscosity, liquid beryllium, USSR study, 15941
 Visitors, pleasure and business visitors to U.S. by port of entry and mode of travel, 16519
 Visual acuity, *see* Acuity.
 Visual stimulus, *see* Stimulus.
 Visual flying rules, aviation air traffic patterns, 15679
 Vital statistics:
 data from national health survey, 16375-377
 data from National Vital Statistics System, 16375
 see also Divorce.
 Vocational education:
 annual report, 15644
 transition from school to work in selected countries, 16030
 Vocational Education, Advisory Council on, *see* National Advisory Council on Vocational Education.
 Vocational rehabilitation, *see* Rehabilitation of the disabled.
 Voegeli, Paul T., Sr., occurrence and distribution of molybdenum in surface water of Colorado, 15814
 Vogler, L. E., tropospheric pulse propagation, 15675
 Volcanic rocks, *see* Igneous rocks.
 Volcanoes, Kilauea Volcano, Hawaii, Oct. 1963 eruption, 15804
 Volcker, Paul A., remarks, Sept. 12, 1969, 15618
 Volunteer workers, services in mental health, annotated bibliography, 16379
 Vortex valves, *see* Valves.
 Voting, rights act of 1965, extend, report, 15233
- W**
- Waananen, A. O., floods of Jan. and Feb. 1969 in central and southern California, 15799
 Wages:
 area surveys—
 Atlanta, Ga., 16016
 Beaumont-Port Arthur-Orange, Tex., 16014
 Houston, Tex., 16021
 Lawrence-Haverhill, Mass.-N.H., 16018
 Los Angeles, Long Beach and Anaheim, Santa Ana, and Garden Grove, Calif., 16017
 Muskegon-Muskegon Heights, Mich., 16019
 Portland, Oreg.-Wash., 16015
 Providence - Pawtucket - Warwick, R.I., Mass., 16013
 San Antonio, Tex., 16023
 Spokane, Wash., 16020
 Worcester, Mass., 16022
 Wages—Continued
 industry survey, footwear, 16024
 wage trends for occupational groups in metropolitan areas, 16031
 Walker, Charles E., remarks, Sept. 30, 1969, 16514
 Walker, Robert H., selling in Belgium, 15171
 Walla Walla Indians, *see* Umatilla Reservation.
 Walla Walla River and Valley, basin, Washington and Oregon, sediment transport by streams, 15817
 Walrath, Laurence K., remarks, May 8, 1968, 15894
 Walton, William C., Jr., new matrix theorem and its application for establishing independent coordinates for complex dynamical systems with constraints, 16206
 Wang, K. P., mineral industry of mainland China, 16085
 War, selected references, 15022
 Ward, John F., dynamic response of flexible rotor blade to concentrated force moving from top to root, 16167
 Warfare, *see* Biological warfare—Chemical warfare.
 Warsaw, Poland, International Federation of Automatic Control papers presented, June 16-21, 1969, USSR study, 15980
 Warships, naval fighting ships, dictionary, 16304
 Warwick, R.I., area wage survey, 16013
 Washburn, C. Langhorne, remarks, Sept. 15, 1969, 16520
 Washington County, Ark., community profile, 15609
 Washington, D.C., *see* District of Columbia.
 Washington International School, Inc., conveying District property to, law, 15211
 Washington State:
 census of business, 1967, wholesale trade, area statistics, 15111
 Walla Walla River basin, transport of sediment by streams, 15817
 Waste disposal, *see* Waste products.
 Waste products:
 solid waste—
 disposal needs and practices, technical economic study, 16374
 management in Fresno area, final report, systems study, 16373
 management, problems, practices and needs, comprehensive assessment, 16398
 solid resource (address), 15177
 waste water—
 light-catalyzed chlorine oxidation treatment, investigation, 15744
 treatment plants, ozone treatment of secondary effluents from, 15745
 Water:
 estuaries, cradles or graves, better water for America, 15741
 heat can hurt, better water for America, 15742
 mineralized artesian, effects on freshwater biota of Taylor Slough, Everglades National Park, Fla., 15795
 resources—
 California, 15812
 Colorado, 15813
 development functions and programs of Corps of Engineers, 15664
 development proposals, Interior Dept. to investigate feasibility, report, 15261
 Oneida and Logan projects, Bear River, Idaho, and Logan River, Utah, development owned by Utah Power and Light Co., appraisal for hydroelectric licensing, evaluation report, 15718
 technical publications, 16392-393
 techniques of water-resources investigation, 15811
 reverse osmosis, desalination, concentration polarization control, 15863

- Water—Continued
 saline water distillation, scale control, basic studies, 15858
 saline water research and development progress reports, 15853-864
 supply—
 communities of over 1000 population with water containing in excess of 1000 ppm of total dissolved solids, 15859
 community, upgrading of treatment and distribution system needed (remarks), 16368
 Nevada, fall, summary, 16422
 problems at Everglades National Park, hearings, 15461
 surface water—
 Colorado, occurrence and distribution of molybdenum, 15814
 resources of Yobe River system, northern Nigeria, 1963-68, 15810
 techniques of water-resources investigations, 15811
 water supply papers, 15814-818
 water-to-cryogenic-hydrogen heat exchanger, heat transfer characteristics, 16178
 Water carriers, mixing rule exemption, modernize certain restrictions upon application and scope, report, 15293
 Water Control Planning Division, report, 16503
 Water pollution:
 clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, 15740
 fish kills, 15743
 heat can hurt, better water for America, 15742
 see also Thermal pollution.
 Water Resources Council, appropriations, 1970, report, 15298
 Water Resources Research Office, appropriations, 1970, report, 15398
 Water supply, *see* Water.
 Watersheds, Hawaii, survey, plan of work, 15004
 Waterways Experiment Station:
 miscellaneous papers, 15665-666
 technical reports, 15667-668
 Watkins Carolina Express, Inc., motor carrier accident, 16114
 Waupaca County, Wis.:
 floods—
 how to avoid damage, 15654
 plain information, 15657
 Wave forms, transformer of closely spaced waveforms having nonzero average value, 16200
 Waves:
 acoustic-gravity waves in atmosphere, final program, 15670
 cylindrical hydroacoustical, diffraction at junction of 2 semi-infinite plates, USSR study, 15952
 motion problems, scientists investigate, USSR study, 15930
 surface, effect of ocean bottom on sound generation and dependence of sound velocity on depth, USSR study, 15929
 see also Shock waves.
 Ways and Means Committee, House, committee print, 15338
 WB, *see* Weather Bureau.
 Weather, all weather landing development tests, 16487
 Weather Bureau:
 ESSA technical memorandum WBTM-DATAC series, 15673
 observers quarterly, 16527
 Weather stations:
 North Atlantic Ocean Station—
 Bravo, 15155
 Echo, 15156
 Webber, Richard H., monitors of U.S. Navy, 1861-1937, 16306
 Webbers Falls Lock and Dam, Arkansas River navigation project, hydraulic model investigation, 15668
 Weeks, *see* names of special weeks.
 Weidenbaum, Murray L.:
 addresses, etc.—
 Sept. 10, 1969, 16511
 Oct. 1, 1969, 16516
 Weight:
 Framingham relative weight, serum cholesterol and systolic blood pressure as discriminators of cardiovascular disease, Framingham, study, 16255
 motor vehicle weight and width limitations on interstate highway system, raise limits, hearings, 15326
 Weightlessness:
 problems, discussed, USSR study, 15908
 study of astronaut capabilities to maintain life support systems and cabin habitability, 16130
 Weiland, Walter F., jr., heat-transfer characteristics of water-to-cryogenic-hydrogen heat exchanger, 16178
 Welding, high-strength low-alloy steel weldments for cargo ship hulls, study of factors which affect adequacy, 16400
 Weldments, *see* Welding.
 Welfare, *see* Public assistance.
 Wells, J. Robert, feldspar, nepheline syenite and apatite, 16075
 West (U.S.):
 pozzolanic raw materials resources, 16078
 West Indies, lights and fog signals, list, change, 16301
 West Orange, N.J., motor carrier accident, 16114
 Western Hemisphere, *see* Hemisphere, Western.
 Western States, *see* West (U.S.)
 Westfield, Mass.:
 floods—
 how to avoid damage, 15660
 plain information, 15656
 Westfield River, flood plain information, 15656
 Wetherill Mesa, *see* Mesa Verde National Park.
 Wheat, durum, acreage allotments in Tulelake area, report, 15395
 Wheeler, Richard G., production and export of corn and rice in Brazil, prospects for 1970's, 15624
 Where the leaders are . . . , 15059
 Whisman, Marvin L., radiotracer procedures for mechanistic studies in air pollution research, 16103
 White County, Ark., community profile, 15610
 White spruce, *see* Spruce.
 Whitehead, Allen H. Jr., flow-field and drag characteristics of several boundary-layer tripping elements in hypersonic flow, 16192
 Whittaker, Philip N., nomination, hearing, 15417
 Wholesale trade, census of business, area statistics, 15099-112
 Widows and widowers, *see* Pensions.
 Wilderness areas:
 designate, proposal—
 Desolation Wilderness in California reports, 15258, 15275
 Ventana Wilderness in California, law, 15206
 Wilders, Charles S., types of injuries, incidence and associated disability, July 1965-June 1967, U.S., 16376
 Wildlife:
 fish and wildlife coordination act, amend, report, 15276
 special scientific reports, wildlife series, 16457-458
 Wildlife management, in national parks, 16279

INDEX

- Wildlife refuges:
 refuge leaflets, 16443-445
see also names of refuges.
- William Howard Taft National Historic Site, establish, reports, 15263, 15375
- William L. Pinley National Wildlife Refuge, general information, 16454
- Williams, David L., Jr., address, Sept. 24, 1969, 15632
- Williams, Randolph, effects of extended high-temperature storage on performance characteristics of several strain gage pressure transducers, 16231
- Williams, Thomas F., remarks, May 26, 1969, 16335
- Wilson, James E., Apollo program management, 15327
- Wilt diseases, nyctitropic movement as false wilt symptom of cotton, 14974
- Winds, ground wind characteristics at Kennedy Space Center, 16134
- Wings (aircraft):
 75° swept delta wing trailing-edge flap at Mach 6 and angles of attack to 90°, pressure and heat transfer, 16171
 swept-wing, twin-jet fighter airplane, analysis of flat-spin characteristics, 16166
- Winnebago, County, Wis.:
 floods—
 how to avoid damage, 15654
 plain information, 15657
- Wolf River, flood plain information, 15654, 15657
- Wolford, Thomas C., oceanography of Grand Banks region and Labrador Sea in 1966, 15154
- Wolfson, D. E., destructive distillation of scrap tires, 16102
- Women:
 employment in Federal Government, study, 15149
 toward job equality for women, 15677
- Women workers, *see* Women.
- Wood, Allen D., radiant energy transfer measurements in air, 16124
- Wood:
 chip piles, new method for appraising decay capabilities of micro-organisms in, 15762
 tension wood effect on hard maple for manufactured parts, 15763
see also names of articles manufactured from wood.
- Wood ducks, habitat management, 16435
- Wood pulp:
 chips, control of deterioration with kraft green liquor, 15764
 production in Northeast, 15776
- Woodlands, *see* Forests and forestry.
- Woodmansee, Walter C., mineral industry of Israel, 16084
- Woodruff County, Ark., community profile, 15611
- Worcester, Mass., area wage survey, 16022
- Work:
 accent on youth, work experience programs for disadvantaged, etc. 15148
 transition from school to work in selected countries, 16030
 work and workers in urban areas, changing patterns, 16026
- Work injuries, *see* Injuries.
- Working women, *see* Women.
- Workmen's compensation, *see* Employers liability and workmen's compensation.
- World peace, *see* Peace.
- World trade, *see* Commerce.
- World War, 1914-18, *see* European War, 1914-18.
- World War, 1939-45:
 crisis fleeing, military medicine in India and Burma, original reports, 15061
- World War, 1939-45—Continued
 Marine Corps operations, victory and occupations, 16042
 Salerno to Cassino, Mediterranean theater of operations, 16071
 United States Army in World War II, 16071
- World War II, *see* World War, 1939-1945.
- Wortz, E. C.:
 man's capability for self-locomotion on the moon—
 detailed report, 16128
 summary report, 16129
- Wright, Edward L., probability density functions of n vectors added with random directions, 16316
- Writings on American history:
 departmental edition, 15028
 document edition, 15217
- Wyoming:
 census of business, 1967—
 selected services, area statistics, 15098
 wholesale trade, area statistics, 15112
 Upper Niobrara River compact, congressional consent, law, 15200

X

- X-15, *see* Airplanes.
- X-rays, population dose, U.S. 1964, gonad and genetically significant dose estimates from X-ray exposure study, 16365

Y

- Yaffe, Charles D., address, May 14, 1969, 16367
- Yakima project, Kennewick division extension, construction, etc., law, 15214
- Yarger, W. E., body armor in hot humid environment, studies in heat acclimatized men, 16057
- Yearbooks, HUD, 1967 statistics, 15837
- Yell county, Ark., community profile, 15612
- Yobe River, surface water resources, northern Nigeria, 15810
- Young, Earl H.:
 German photographic products industry and market, 15085
 photographic products industry and market in United Kingdom, 15087
- Younger, Charles L., effect of nuclear radiation at cryogenic temperatures on tensile properties of titanium and titanium-base alloys, 16186
- Your Navy, from viewpoint of nation's finest artists, 16320
- You're on camera in color, 15002
- Youth:
 accent on youth, Federal employment and work experience programs for disadvantaged youths, 15148
 interstate compact on juveniles, adoption by District of Columbia, report, 15383
- Youth Communications Week, *see* National Adult-Youth Communications Week.

Z

- Zadeh, L. A., toward theory of fuzzy systems, 16139
- Zambia, mineral industry, minerals year-book chapter, 16089
- Zasada, John C., regeneration of white spruce with reference to interior Alaska, literature review, 15775
- Zinc, refining zinc-base die-cast scrap using low cost fluxes, 16106
- Zip code, *see* Post offices.
- Zoology, Smithsonian contributions to Zoology, 16404
- Zuk, John, investigation of isothermal compressible flow across rotating sealing dam, computer program, 16155

To Superintendent of Documents,
Government Printing Office,
Washington, D.C. 20402

For Use of Supt. of Docs.

----- Enclosed -----

To be mailed
later

----- Subscriptions -----

Refund.....

Coupon refund

Postage

For additional space use other side. Total, \$ _____
 For PROMPT, ACCURATE SHIPMENT please fill in the following label—Please PRINT or typewrite.

OFFICIAL BUSINESS
RETURN AFTER FIVE DAYS

City, State, and ZIP Code _____

Additional space for your order

[illegible]

Do not write in space below

Total, \$_____

To Superintendent of Documents,
Government Printing Office,
Washington, D.C. 20402

For Use of Supt. of Docs.

Enclosed

To be mailed
later _____

Subscriptions

Refund

Coupon refund

Postage

CATALOG No.

QUANTITY
DESIRED

TITLE OF PUBLICATION

AMOUNT

Total. \$

U.S. GOVERNMENT PRINTING OFFICE
DIVISION OF PUBLIC DOCUMENTS
WASHINGTON, D.C. 20402

OFFICIAL BUSINESS

RETURN AFTER FIVE DAYS



POSTAGE AND FEES PAID
U.S. GOVERNMENT PRINTING OFFICE

Street Address _____

City, State, and ZIP Code _____

Additional space for your order

[illegible]

Do not write in space below

Total, \$-----

To Superintendent of Documents,
Government Printing Office,
Washington, D.C. 20402

For Use of Supt. of Docs.

----- Enclosed -----

To be mailed

later

Subscriptions

Refund_____

Coupon refund

Postage _____

or additional space use other side.

Total, \$	
-----------	--

or PROMPT, ACCURATE SHIPMENT please fill in the following label—Please PRINT or typewrite.

POSTAGE AND FEES PAID
U.S. GOVERNMENT PRINTING OFFICE

Name _____

Street Address _____

City, State, and ZIP Code _____

Additional space for your order

[illegible]

Do not write in space below

Total, \$	-----
-----------	-------

To Superintendent of Documents,
Government Printing Office,
Washington, D.C. 20402

For Use of Supt. of Docs.

----- Enclosed -----

To be mailed

later

Refund_____

Coupon refund

Postage

or additional space use other side.

Total, \$

For PROMPT, ACCURATE SHIPMENT please fill in the following label—Please PRINT or typewrite.

POSTAGE AND FEES PAID
U.S. GOVERNMENT PRINTING OFFICE

Name _____

Street Address _____

City, State, and ZIP Code _____

Additional space for your order

[illegible]

Do not write in space below

Total, \$	-----
-----------	-------

GOVERNMENT PRINTING OFFICE BOOKSTORES

In addition to the mail-order service provided by the office of the Superintendent of Documents, Government Printing Office, for the sale of those publications listed in the Monthly Catalog with an asterisk (*) and price, there are also seven retail bookstores which constitute a part of the operations of that office. The locations of these stores are shown below:

Government Printing Office
710 North Capitol Street
Washington, D.C. 20402
Telephone: Area code 202—783-3238

Department of Commerce, Lobby
14th and Constitution Avenue NW
Washington, D.C. 20230
Telephone: Area code 202—Worth 7-3527

USIA Building, 1st floor
1776 Pennsylvania Avenue NW
Washington, D.C. 20547
Telephone: Area code 202—DUpont 3-2898

Department of State Building, 1st floor
21st and C Streets NW
Washington, D.C. 20520
Telephone: Area code 202—DUpont 3-4004
(Public access to building controlled by security regulations.)

Chicago Branch
Room 1463—14th floor
Federal Office Building
219 South Dearborn Street
Chicago, Illinois 60604
Telephone: Area code 312—353-5133

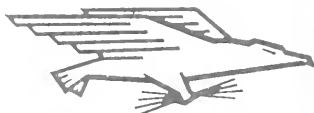
Kansas City Branch
Room 135, Federal Office Building
601 East 12th Street
Kansas City, Missouri 64106
Telephone: Area code 816—374-2160

San Francisco Branch
Room 1023, Federal Office Building
450 Golden Gate Avenue
San Francisco, California 94102
Telephone: Area code 415—556-6657

UNITED STATES
GOVERNMENT PRINTING OFFICE

U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON, D.C. 20402

OFFICIAL BUSINESS



POSTAGE AND FEES PAID
U.S. GOVERNMENT PRINTING OFFICE

35

Ref.

MONTHLY CATALOG

UNITED STATES

GOVERNMENT PUBLICATIONS

DECEMBER 1969

Entries 16528-17443
and Annual Index

BERNAN

DISTRIBUTION OF PUBLICATIONS

In ordering publications listed in this catalog, it should be noted that *only* those marked with an asterisk (*) are obtainable from the Superintendent of Documents.

Publications marked with a farad (Φ) are sold by the Clearinghouse for Federal Scientific and Technical Information, Springfield, VA 22151.

Where a single dagger (†) is the distribution symbol, application should be made directly to the department or bureau issuing the document.

* For sale by SUPERINTENDENT OF DOCUMENTS

Φ For sale by Clearinghouse for Federal Scientific and Technical Information, Springfield, VA 22151

† Distribution made by Issuing Office. Not definitely available if unaccompanied by a price

‡ Printed for Official Use
(not available for distribution)

● Sent to Depository Libraries

SIZES OF PUBLICATIONS

Symbols used to designate sizes of publications listed in this catalog are as follows:

4°-----	6-12 inches high and width more than $\frac{3}{4}$ of height
large 4°-----	over 12 inches high and width more than $\frac{3}{4}$ of height
small 4°-----	under 6 inches high and width more than $\frac{3}{4}$ of height
8°-----	8-10 inches in height (size not given in entry except where publication is narrow or oblong)
large 8°-----	10-12 inches in height
12°-----	7-8 inches in height
16°-----	6-7 inches in height
24°-----	5-6 inches in height
32°-----	4-5 inches in height
48°-----	up to 4 inches high
f°-----	above 12 inches in height
narrow-----	width less than $\frac{3}{5}$ of height
oblong-----	width more than height

MONTHLY CATALOG



OF UNITED STATES
GOVERNMENT PUBLICATIONS

DECEMBER 1969

Number 899

Entries 16528-17443
and Annual Index January-December 1969

Issued by the SUPERINTENDENT OF DOCUMENTS
U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 : 1969

L.C. Card 4-18088

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT
PRINTING OFFICE, WASHINGTON, DC 20402. PRICE 50 CENTS PER COPY
EXCEPT DECEMBER (INDEX) ISSUE, WHICH VARIES IN PRICE
SUBSCRIPTION PRICE \$6.00 PER YEAR (INCLUDING INDEX)
\$1.50 ADDITIONAL FOR FOREIGN MAILING
THIS ISSUE \$2.50

PREVIEWS

The following publications are in the process of being printed. Advance sales orders may be placed for these publications. Orders will be scheduled and copies mailed as soon as stocks are received. It is not possible to estimate the lapse of time before the publications will actually appear. All information in regard to title, series, classification, distribution, and price given in these listings is preliminary and subject to change when the publications actually come from the press. Those so marked will be sent to depository libraries, providing, that at the time of going to press, the libraries were on list to receive the items under which these publications will be distributed.

- Area handbook for Jordan. (Army Department, Pamphlet 550-34.) \$3.25 ●
D 101.22 : 550-34
- Atomic Energy Commission 1969 financial report. (Atomic Energy Commission.) 60¢. ●
Y 3.At 7 : 39/969
- Battle for Khe Sanh. (Marine Corps.) \$1.75. ●
D 214.13 : K 52
- Combat squadrons of the Air Force, World War II. (Air Force Department.) \$8.25. ●
D 301.2 : C 71
- Controlling potato insects. (Agriculture Department, Farmers' bulletin 2168, revised.) 15¢ ●
A 1.9 : 2168/5
- Directory of information resources in United States, general toxicology. (Library of Congress.) \$3.00. ●
LC 1.31 : D 62/5
- Dwarf fruit trees, selection and care. (Agriculture Department, Leaflet 407, revised.) 10¢. ●
A 1.35 : 407/3
- Farm lighting. (Agriculture Department, Farmers' bulletin 2243.) 10¢. ●
A 1.9 : 2243
- Floors, care and maintenance. (Post Office Department, Facilities handbook series S-3, revised) 30¢ ●
P 1.31/3 : 3/2
- Growing black walnuts for home use. (Agriculture Department, Leaflet 525, revised.) 10¢. ●
A 1.35 : 525/3
- Handbook of agricultural charts for 1969. (Agriculture Department, Handbook 373.) 65¢. ●
A 1.76 : 373
- Hearings before U.S. Equal Employment Opportunity Commission on utilization of minority and women workers in certain major industries. (Equal Employment Opportunity Commission.) \$3.00 ●
Y 3.Eq 2 : 2 M 66/3
- Highlights of Office of Territories. (Territories Office.) 60¢. ●
I 35.2 : H 53
- How to make an industrial site survey. [Revised 1969.] (Economic Development Administration.) 30¢ ●
C 46.8 : In 2
- Labor law and practice in Afghanistan. (Labor Statistics Bureau, BLS report 357.) 35¢ ●
L 2.71 : 357
- Learning to talk, speech, hearing, and language problems in the pre-school child. (National Institutes of Health.) 45¢. ●
FS 2.22 : T 14
- Lectures on modular forms. (National Bureau of Standards, Applied mathematics series 61.) 70¢. ●
C 13.32 : 61
- Legislative guide for drafting family and juvenile court acts. (Children's Bureau.) 35¢. ●
FS 17.210 : 472
- Meat and poultry standards for you. (Agriculture Department, Home and garden bulletin 171.) 10¢. ●
A 1.77 : 171
- Mineral resources and industries of Arkansas. (Mines Bureau, Bulletin 645.) \$4.25. ●
I 28.3 : 645
- Money-saving main dishes. (Agriculture Department, Home and garden bulletin 43, revised.) 30¢. ●
A 1.77 : 43/4
- Notes on history and material culture of Tonkawa Indians. (Smithsonian Institution, Smithsonian contributions to anthropology, vol. 2, no. 6.) 55¢. ●
SI 3.11 : 2/6
- Proceedings of Artificial Heart Program Conference, June 9-13, 1969. (National Institutes of Health.) \$10.00. ●
FS 2.22 : H 35/15

- Register of commissioned and warrant officers of U.S. Naval Reserve, July 1, 1969.** (Naval Personnel Bureau.) \$4.00. ● D 208.12/2: 969
- Roth study, 1969 listings of operating Federal assistance programs.** (House of Representatives, House document 177, 91st Congress, 1st session.) \$4.50 ● 91-1: H.doc.177
- Second report on oral contraceptives.** [August 1, 1969.] (Food and Drug Administration.) \$1.00. ● FS 13.102: C 76/2/969
- State aid to local government.** (Advisory Commission on Intergovernmental Relations.) \$1.00. ● Y 3.Ad 9/8: 2 G 74/3
- Statistical summary of physical research program.** (Atomic Energy Commission.) 50¢. ● Y 3.At 7: 2 P56/2
- Tax information for visitors to United States.** (Internal Revenue Service, Publication 513, revised.) \$3.75 per 100, single copy 5¢. ● T 22.44/2: 513/2
- Uranium in southern United States.** (Atomic Energy Commission, Research and development report WASH-1128.) \$2.25. ● Y 3.At 7: 22/WASH-1128
- Waiter-waitress, suggested guide for training course.** (Education Office, OE-87046.) 55¢. ● FS 5.287: 87046

Contents

	Page
Previews -----	III
Abbreviations, Explanation-----	VI
General Information-----	VII
How To Order Publications-----	VIII
New Classification Numbers Assigned	
January-December 1969-----	IX
Discontinued Series-----	XXIV
Corrections for Previous Monthly	
Catalogs -----	XXVI
List of Government Authors-----	XXVII
Monthly Catalog-----	1
Index January-December 1969----	65

Abbreviations

add_____	addition, addendum, addenda.	n. d._____	no date.
amdt., amdts._____	amendment, amendments.	n. p._____	no place.
app_____	appendix, appendixes.	no., nos._____	number, numbers.
bk., bks._____	book, books.	p._____	page, pages.
chap_____	chapter, chapters.	p. of pl._____	pages of plates.
Cong_____	Congress.	par., pars._____	paragraph, paragraphs.
Dept_____	Department.	pl._____	plate, plates.
doc_____	document.	por_____	portrait, portraits.
facsim_____	facsimile, facsimiles.	pt., pts._____	part, parts.
fy_____	fiscal year.	rp_____	report.
G.H.A._____	Greenwich hour angle.	S._____	Senate, Senate bill.
H._____	House.	S. Con. Res._____	Senate concurrent resolution.
H. Con. Res._____	House concurrent resolution.	S. doc._____	Senate document.
H. doc._____	House document.	S. ex. doc._____	Senate executive document.
H. ex. doc._____	House executive document.	S. ex. rp._____	Senate executive report.
H. J. Res._____	House joint resolution.	S. J. Res._____	Senate joint resolution.
H. R._____	House of Representatives, House bill.	S. Res._____	Senate resolution.
H. Res._____	House resolution.	S. rp._____	Senate report.
H. rp._____	House report.	sec_____	section, sections.
il_____	illustration, illustrations.	sess_____	session, sessions.
in_____	inch, inches.	Stat. L._____	Statutes at large.
lat_____	latitude.	supp_____	supplement.
long_____	longitude.	tab_____	table, tables.
m._____	mile.	Treas_____	Treasury.
		v._____	volume, volumes.
		vs., c._____	versus.

Common abbreviations for the names of States, months, etc., are also used.

An explanation of the symbols used to designate sizes of publications is given on the inside of the front cover.

Explanation

The individual issuing department, bureau, office, or agency is considered the publisher of Government publications.

Words and figures enclosed in brackets [] in titles are given for information, but do not appear on the title pages of the publications cataloged. Place and printer are not given for publications printed at the United States Government Printing Office, Washington, D.C., or at Government departmental and field printing plants. The dates given with Senate and House documents and reports are the dates on which they were ordered to be printed. Usually the printing promptly follows the ordering, but various causes sometimes make delays.

Under provisions of the Printing Act of January 12, 1895, all Government publications, except administrative and confidential (or restricted), are entered in the Monthly Catalog.

The L.C. card number appended to some of the entries is for those libraries ordering printed cards from the Library of Congress. The number at the extreme right of an entry indicates the classification of the publication in the Office of the Superintendent of Documents.

General Information

The Superintendent of Documents, Government Printing Office, Washington, DC, is authorized by law to sell copies of Government publications and to allow a discount of 25 percent to book dealers and also to quantity purchasers of 100 or more copies of a single publication on condition that they will adhere to the public sales price set by the Superintendent of Documents and that publications shall not be overprinted with any advertising matter.

Publications cannot be supplied free to individuals nor forwarded in advance of payment.

PRICE LIST

There is no general price list of public documents, but numerous lists have been prepared on special subjects and any of these will be furnished free, on application, by subject or subjects concerning which information is desired. It will also be noted that current publications which are for sale are listed in this catalog.

LIST OF SELECTED PUBLICATIONS

In addition to the price lists, the Documents Office issues a biweekly list of Selected United States Government publications for sale by the Superintendent of Documents. Each list is arranged alphabetically by subjects, with annotations and prices, and may be obtained free upon application to the Superintendent of Documents.

CONGRESSIONAL BILLS, DOCUMENTS, AND REPORTS

More than 12,000 different bills are usually introduced during a Congress, and there are additional prints on many during the progress of the legislation. With the exception of a very few—such as revenue bills—the demand is an unknown quantity and on most of them we receive no orders, which makes it impossible to print a sales supply. It may be that a copy could be obtained from your Congressman.

A difficult problem is also presented in providing a supply of congressional documents, hearings, and reports because there are approximately 6,000 of this class of publications issued during a Congress and only a few of them are called for. We will attempt to print for sale a few of the more important ones, but if not priced the only possible source would be from your Congressman.

HOW TO ORDER PUBLICATIONS

Publications entered in this catalog that are for sale by the Superintendent of Documents are indicated by an asterisk (*) preceding the price. Those for sale by the Clearinghouse for Federal Scientific and Technical Information are indicated by a farad (Φ) preceding the price. A black dot (●) indicates that the publication has been or will be sent to depository libraries. A dagger (†) indicates that application should be made to the department, bureau, or agency issuing the document. A double dagger (‡) indicates that the document is printed for official use and is not obtainable. Whenever additional information concerning the method of procuring a document seems necessary, it will be found under the name of the bureau by which it was published.

In ordering a publication from the Superintendent of Documents, give (if known) the name of the publishing department, bureau, or agency, and the title, together with the classification number which is added to the entry at the extreme right; order the congressional documents and reports by the title, together with the document or report number and the Congress, e.g., H. Doc. 103, 88th Congress.

Do not use the L.C. card number in ordering a publication from the Superintendent of Documents.

HOW TO REMIT

Remittances for documents marked with an asterisk (*) should be made to the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, by coupon, postal money order, express order, or check. Publications cannot be mailed in advance of receipt of remittance. Currency may be sent at sender's risk. Foreign remittances should be made either by international money order or draft on an American bank.

Foreign money, defaced or smooth coins, will not be accepted. Do not send postage stamps.

For the convenience of the general public, coupons in the denomination of 5¢ that are good until used in exchange for Government publications sold by the Superintendent of Documents, may be purchased from this office. Address order to Superintendent of Documents, Government Printing Office, Washington, DC 20402.

Persons who make frequent purchases from the Superintendent of Documents may find a deposit account convenient. Deposits of \$25.00 or more are accepted against which orders may be placed without making individual remittances or first obtaining quotations. Order blanks are furnished for this purpose. After the handling of the order has been completed, it will be returned showing the publications supplied, explanations regarding those not sent, the amount of charge, and the balance on deposit.

No charge is made for postage on documents forwarded to points in United States and possessions, or to Canada, Cuba, Mexico, and certain Central and South American countries. To other countries the regular rate of postage is charged, and remittances must cover such postage. In computing foreign postage, add one-fourth of the price of the publication.

LIBRARY CLASSIFICATION IN DOCUMENTS OFFICE

The classification given at the right of entries for departmental publications is that used in the Library of the Division of Public Documents. It is also used as a catalog number for sales stock of this office. The shilling mark (/) separates what would ordinarily be superior or inferior numbers or letters, as it is not practicable to print these numbers or letters as superiors or inferiors in the Monthly Catalog.

New Classification Numbers

Assigned January-December 1969

NOTE.—New classes appearing for the first time in this issue of the Monthly Catalog are listed in *italics*.

	Forest Service.
A 13.1/2: date_____	California Region, progress reports.
A 13.13/3: date_____	National forests, lands of many uses, report.
	NOTE.—Issued by California region.
A 13.42/22: Reserved	
A 13.42/23: date_____	Northeastern Forest Experiment Station: New publications available.
A 13.52/8: letters-nos_____	Northeastern Area State and Private Forestry [publications].
A 13.65/14-3: nos_____	Intermountain Forest and Range Experiment Station: Recent reports.
A 57.46/5-2: date_____	Soil Conservation Service.
	Water supply summary and outlook for Oregon and Federal-State-private cooperative snow surveys.
A 57.51: nos_____	Technical releases.
A 57.54: date_____	Plant Materials Centers annual reports.
A 57.55: CT_____	Plant materials annual progress reports.
A 57.56: CT_____	Habitat management for [various animals].
A 57.57: CT_____	Appraisal of potentials for outdoor recreational development [by area].
A 57.58: nos_____	Soil survey interpretations for woodlands, progress reports W-(series).
A 77.233/4: date_____	Agricultural Research Service.
	Cooperative State-Federal sheep and cattle scabies epidemiology and related activities, fiscal year.
A 77.243: Reserved	NOTE.—See, for earlier class, A 77.202: Sh 3/13.
A 77.244: date_____	Equine infectious anemia progress report and history in United States, fiscal year.
	Agricultural Stabilization and Conservation Service.
A 82.1/2: CT/date_____	Annual reports [by States].
A 82.82/2: CT_____	ASCS commodity fact sheets.
	Commodity Exchange Authority.
A 85.11/8: nos_____	Futures trading and open contracts in frozen concentrated orange juice [on Citrus Associates of New York Cotton Exchange].
	Consumer and Marketing Service.
A 88.17/5: Reserved	
A 88.17/6: nos_____	MIP guidelines.
A 88.30/7: date_____	Prosecutions and seizures under the Federal seed act.
A 88.50: date_____	Type A topics, National school lunch program.
	NOTE.—See, for earlier class, A 77.202: Sh 3/13.
A 92.8: CT_____	Statistical Reporting Service.
	Handbooks, manuals, guides.

	Food and Nutrition Service.
A 98.1: date_____	Annual report.
A 98.2: CT_____	General publications.
	Commerce Department.
C 1.841: nos._____	Federal meteorological handbooks (numbered).
C 1.5343: date_____	List of State designated agencies, officials and working contacts.
	NOTE.—Issued by Office of State Technical Services. See, for earlier class, C 1.2: St 2/6.
C 1.5344: nos_____	Office of State Technical Services press releases.
C 1.55: nos_____	DIB computer news.
C 1.56: date_____	Directory of private programs for minority business enterprise.
	Census Bureau.
C 3.2054: nos_____	ISP [International Statistical Programs] supplemental course series.
C 3.226/3: date_____	Advance BCD [Business conditions digest] (monthly).
C 3.212: date/nos_____	Holdings for selected public-employee retirement systems, quarterly report, GR (series).
C 3.243: nos_____	Financial management systems series, FMSS.
C 3.211: nos_____	Census use study reports.
	Coast and Geodetic Survey.
C 4.9/13-2: date_____	Latest editions of U.S. Air Force aeronautical charts (quarterly).
C 4.9/18-2: date_____	Instrument approach procedure charts, [Alaska, Hawaii, U.S. Pacific Islands].
C 4.55: nos_____	Digest of science and engineering presentations.
C 4.56: nos_____	Antarctic traverses.
	National Bureau of Standards.
C 13.1/2: date_____	Center for Radiation Research, technical highlights, fiscal year.
C 13.1/3: date_____	Institute for Applied Technology, technical highlights, fiscal year.
C 13.1/4: date_____	Institute for Basic Standards, technical highlights, fiscal year.
C 13.1/5: date_____	Institute for Materials Research, technical highlights, fiscal year.
C 13.37/5: nos_____	Superconducting devices, literature survey (quarterly).
C 13.52: nos_____	Federal information processing standards publications.
	Weather Bureau.
C 30.6/6: nos_____	Weather Bureau observing handbooks.
C 30.22/6: CT_____	Weather Bureau marine services charts.
C 30.84: Reserved	
C 30.85: v. nos. & nos_____	Water supply outlook for western United States (monthly).
	NOTE.—Prior to v. 21, no. 1, entitled Water Supply forecasts for western United States.
C 30.86: date_____	Observers quarterly.
	Maritime Administration.
C 39.212/3: date_____	New ship construction, oceangoing ships of 1,000 gross tons and over in United States and foreign shipyards.
C 39.228: Reserved	
C 39.229: date_____	Oceangoing merchant ships of 1,000 gross tons and over lost and scrapped during calendar year.
C 39.230: date_____	Oceangoing foreign flag merchant type ships of 1,000 gross tons and over owned by the United States parent companies (semiannual).
C 39.231: date_____	Containerships under construction and on order (including conversions) in United States and foreign shipyards, oceangoing ships of 1,000 gross tons and over (semiannual).

- C 39.232: date----- United States flag containerships and United States flag ships with partial capacities for containers and/or vehicles (semiannual).
Business and Defense Services Administration.
- C 41.30/5: date----- Quarterly summary for future construction abroad.
- C 41.90/5: CT----- Patterns of industrial growth (series).
- C 41.112: date----- Aluminum imports and exports (monthly).
NOTE.—See, for earlier class, C 41.2: M 8/3: International Commerce Bureau.
- C 42.11/3: nos----- Export control bulletin, supplement to Export control regulations.
- C 42.31: nos----- International marketing information service, IMIS (series).
- C 46.6: CT----- Economic Development Administration.
Regulations, rules and instructions.
- C 47.14: Reserved
C 47.15: date----- United States Travel Service.
Statistical summary and analysis of foreign visitor arrivals, U.S. citizen and non-U.S. citizen departures (monthly).
NOTE.—Earlier issue entitled Travel and travel dollar flow into and out of United States.
- C 47.15/2: date----- Pleasure and business visitors to U.S. by port of entry and mode of travel.
NOTE.—See, for earlier class, C 47.2: V 82/date. Clearinghouse for Federal Scientific and Technical Information.
- C 51.7/4: nos----- CFSTI news (irregular).
- C 51.7/5: nos/date----- Clearinghouse announcements in science and technology.
- C 52.7/4: v.nos. & nos----- Environmental Science Services Administration.
ESSA news.
- C 52.8/2: nos----- ESS Research Laboratories technical manuals.
- C 52.21/2: nos----- WB/TA (series).
NOTE.—See, for earlier class C 30.17/3: So 8/ (nos.).
- C 52.21/3: Reserved
C 52.21/4: date----- Scientific and technical publications of ESSA Research Laboratories.
NOTE.—Formerly entitled Scientific and technical publications of Institutes for Environmental Research.
- C 52.21/5: date----- Management information on ERL's scientific and technical publications (annual).
- C 52.23: date----- Collected reprints, ESSA Institute for Oceanography (annual).
- C 54.1: date----- Foreign Direct Investments Office.
Annual report.
- C 54.2: CT----- General publications.
- C 54.3: 8 Reserved
C 54.9: CT----- Addresses.
- CC 1.6/9: date----- Federal Communications Commission.
Rules and regulations, v. 9.
- CC 1.43/2: date----- AM-FM broadcast financial data.
- CC 1.46: nos----- Report R-(series), Office of Chief Engineer, Research Division.
- CS 1.43/2: date----- Civil Service Commission.
Best bets for returning veterans in Washington, D.C. area.
NOTE.—See, for earlier class, CS 1.2: V 64/8/ date.
- CS 1.55/2: date----- Monthly release [of] Federal civilian manpower statistics.
NOTE.—Formerly Federal employment statistics bulletin (CS 1.55: date) and Monthly report of Federal employment (CS 1.32/2: date).

Defense Department.

- D 1.1/3: date----- Annual report of Secretary of Defense on Reserve Forces.
- D 1.41: v. nos. & nos----- High School News Service report (monthly during school year).
- D 1.45: date----- Defense management education and training catalog.
- D 2.15/2-2: nos----- Commanders digest indexes.
- D 4.12: nos----- Shock and vibration bulletin.
- D 4.12/2: v. nos. & nos----- Shock and vibration digest.
- D 5.14/2: nos----- DASIAC [Defense Atomic Support Agency Information and Analysis Center] special reports.
- D 7.1/2: date----- Annual historical summary: Defense Logistics Services Center, Battle Creek, Mich.
- D 7.1/3: date----- Annual historical summary: Defense Industrial Plant Equipment Center.
- D 7.1/4: CT----- Annual historical summary: Defense Contract Administration Services [by region].
- D 7.1/5: date----- Annual historical summary: Defense Electronics Supply Center.
- D 7.1/6: date----- Annual historical summary: Defense Fuel Supply Center.
- D 7.1/7: CT/date----- Annual historical summary: Defense Depots.
- D 7.1/8: date----- Annual historical summary: Defense General Supply Center.
- D 7.1/9: date----- Annual historical summary: Defense Construction Supply Center.
- D 7.1/10: date----- Annual historical summary: Defense Documentation Center.
- D 7.20: date----- Consolidated master cross reference list, C-RL-1.
- D 7.21: date----- Annual report to Congress on national industrial reserve under Public law 883, 80th Congress.

Army Department.

- D 101.3/4: Reserved
- D 101.3/5: date----- Army Materiel Command: Employment bulletin.

NOTE.—See, for earlier class, D 101.2: EM 7/3.

- D 101.69: v. nos. & nos----- Army logistician (bimonthly).
- D 101.70: date----- Army Materiel Command coordinated recruitment program annual progress report.

Engineers Corps (Army).

- D 103.6/5: CT----- Handbooks, manuals, guides.
- D 103.38/3: nos----- Ohio River Division Laboratories: Technical memorandums.

D 103.46: Reserved

- D 103.47: CT----- Flood plain information.
- D 103.47/2: CT----- Floods [folders].
- D 103.48: v. nos. & nos----- Water spectrum (quarterly).

Army Medical Service.

- D 104.10/2: CT----- Bibliographies and lists of publications.

Army Department.

- D 105.14/4: nos----- HDL [Harry Diamond Laboratories] technical disclosure bulletin.

D 106.18: -20: Reserved

- D 106.21: nos----- Natick Laboratories, Natick, Mass.: Technical reports.

NOTE.—This series consists of reports numbered in one series, which were formerly numbered in separate series. See, for earlier publications, D 106.9: (nos.) and D 106.17: (nos.).

Military Academy, West Point.

- D 109.10: nos----- USMA library bulletin.

Military History, Office of Chief of (Army).

D 114.12 : Reserved

D 114.13 : CT----- Posters, etc.

Provost Marshal General, Office of (Army).

NOTE.—See, for earlier classes, W. 37.

D 120.1 : date----- Annual report.

D 120.2 : CT----- General publications.

D 120.3 : -7 : Reserved

D 120.8 : CT----- Handbooks, manuals, guides.

Naval Oceanographic Office.

D 203.29/2 : nos----- Monthly summary, The Gulf Stream, supplements.

D 203.30 : nos----- News releases.

Medicine and Surgery Bureau (Navy).

D 206.10/2 : nos----- U.S. Naval Submarine Medical Center, Submarine Base, Groton, Conn.: Memorandum reports.

D 206.20 : CT----- Bibliographies and lists of publications.

D 206.21 : nos----- Neuropsychiatric Research Unit, San Diego, Calif.: Reports.

Naval Personnel Bureau.

D 208.14/6 : CT----- U.S. Naval Postgraduate School: Publications (unnumbered).

Naval Facilities Engineering Command.

D 209.16 : nos----- NAVFAC Technical Training Center: NTTC courses.

Marine Corps (Navy).

D 214.16 : CT----- Lithographs.

D 214.17 : nos----- Museum manuscript register series.

Naval Ordnance Systems Command.

D 215.6/2 : CT----- Handbooks, manuals, guides.

Naval Weather Service Command.

D 220.9 : date----- Project Stormfury annual report.

Air Force Department.

D 301.26/19 : nos----- USAF historical studies.

D 301.26/20 : v. nos----- Air University abstracts of research reports (annual).

D 301.40/2 : nos----- Environmental Technical Applications Center: Technical notes.

D 301.42/2 : nos----- Aerospace sciences review.

NOTE.—AWS recurring publications 105-2.

D 301.56/3 : date----- Military Airlift Command: Airlift Service management report (annual).

D 301.62/2 : CT----- Bibliographies and lists of publications.

Federal Home Loan Bank Board.

FHL 1.8/2 : date----- Real estate foreclosure report (quarterly).

NOTE.—Replaces Nonfarm real estate foreclosure report, FHL 1.8 : (date).

Federal Power Commission.

FP 1.7/2 : date----- Uniform system of accounts prescribed for natural gas companies (Class A and B, C, and D) (FPC A-102).

NOTE.—See, for earlier classes, FP 1.7 : G 21/ (date), FP 1.7 : G 21/4 (date), and FP 1.7 : G 21/5 (date).

FP 1.30 : date----- Cost of pipeline and compressor station construction under non-budget type of certificate authorizations as reported by pipeline companies (annual).

FP 1.31 : CT----- Evaluation report, water resources appraisal for hydroelectric licensing.

Federal Reserve System Board of Governors.

FR 1.46/4 : date----- List of OTC margin stocks.

FR 1.51 : Reserved-----

FR 1.52: date	Weekly summary of banking and credit measures.
NOTE.—Federal reserve statistical release H. 9.	
FS 1.6/7-2: nos	Health, Education, and Welfare Department.
FS 1.30: v. nos. & nos.	Grants administration manual circulars.
FS 1.31: date	The Secretary's letter.
FS 1.32: CT	Grants administration report.
FS 1.33: date	Task Force on Prescription drugs, publications.
FS 1.34: date	Reports of Career Service Board for Science.
FS 1.35: date	HEW consumer newsletters.
	Cost of clean air, report of Secretary of Health, Education, and Welfare to Congress in compliance with Public law 90-148, Air quality act of 1967.
	National Institutes of Health.
FS 2.22/7-5: date	National Institutes of Health training programs, fiscal year.
FS 2.22/13-8: date	Scientific directory and annual bibliography.
NOTE.—See, for earlier editions, FS 2.21: 75.	
FS 2.22/13-9: date	NIH quarterly publications list.
FS 2.22/22-2: date	NIH public advisory groups, authority, structure, functions.
FS 2.22/30-3: v. nos. & nos.	Cancer chemotherapy reports part 2.
FS 2.22/30-4: v. nos. & nos.	Cancer chemotherapy reports part 3, Program information.
FS 2.22/59-2: date	Epilepsy abstracts (compilations).
FS 2.22/61: nos.	Current population research reports.
FS 2.22/62: date	National Institute of General Medical Sciences, annual report.
FS 2.22/63: CT	Chemotherapy fact sheets.
FS 2.24/3: Reserved	Public Health Service.
FS 2.24/4: date	Smoking and health bibliographical bulletin (monthly).
FS 2.53/2-2: letter/nos.	Mental health statistics.
FS 2.60/11: Reserved	
FS 2.60/12: nos.	National Communicable Disease Center salmonella surveillance reports.
NOTE.—See, for earlier class, FS 2.60/2: Sa 3/3/rp. (nos.).	
FS 2.60/12 2: date	National Communicable Disease Center salmonella surveillance annual summary.
FS 2.60/13: nos.	National Communicable Disease Center hepatitis surveillance reports.
FS 2.60/14: CT	National Communicable Disease Center neurotropic viral diseases surveillance [reports].
FS 2.60/15: CT	National Communicable Disease Center zoonoses surveillance [reports].
FS 2.60/16: Reserved	
FS 2.60/17: nos.	National Communicable Disease Center rubella surveillance [reports].
FS 2.60/18: date	National Communicable Disease Center food-borne outbreaks annual summary.
FS 2.71/6: date	Representative construction cost of Hill-Burton hospitals and related health facilities (biannual).
FS 2.86/5: CT/date	Indian vital statistics.
FS 2.86/6: date	Annual statistical review, hospital and medical services.
NOTE.—Issued by Division of Indian Health. See, for earlier class, FS 2.2: In 2/5/17.	
FS 2.86/7: date	Division of Indian Health, annual discharge summary.
FS 2.92/4: date	Training Institute of Environmental Control Administration, bulletin of courses (annual).
FS 2.93/2: Reserved	

FS 2.93/3: nos.....	National Air Pollution Control Administration publication AP (series).
FS 2.93/3-2: nos.....	National Air Pollution Control Administration publication APTD (series).
FS 2.93/4: date.....	Federal research & development planning & programming: Sulfur oxides pollution control (annual).
FS 2.93/5: CT.....	Reports for consultation on air quality control regions.
FS 2.93/6: v. nos. & nos.....	APTIC [Air Pollution Technical Information Center] bulletin.
FS 2.211/3: CT.....	National Library of Medicine. Selected list of audiovisuals.
FS 2.300/4: Reserved	Public Health Service.
FS 2.300/5: nos.....	Analytical Reference Service studies.
	NOTE.—See, for earlier studies, FS 2.300: UIH-8, UIH-10, UIH-11 and WP-26.
FS 2.313: date.....	Progress report, regional medical program for heart disease, cancer, stroke, and related diseases.
	NOTE.—See, for earlier publication, FS 2.22: H 35/13.
FS 2.314: nos.....	MORP [Medical and Occupational Radiation Program] (series).
FS 2.314/2: nos.....	DMRE [Division of Medical Radiation Exposure] (series).
FS 2.314/3: nos.....	DER [Division of Environmental Radiation] (series).
FS 2.315: Reserved	
FS 2.316: nos.....	Injury Control Research Laboratory: Research report, ICRL-RR (series).
FS 2.317: date.....	Grants-in-aid and other financial assistance programs, Health Services and Mental Health Administration.
FS 2.318: -319: Reserved	
FS 2.320: nos.....	Emergency health services digest.
FS 2.321: date.....	Health Services and Mental Health Administration public advisory committees: Authority, structure, functions.
	Social Security Administration.
FS 3.53: nos.....	Medicare newsletter.
FS 3.54: series/nos.....	Disability studies notes.
FS 3.54/2: nos.....	From the Social security survey of the disabled, reports.
FS 3.55: nos.....	IIR (series).
	Federal Credit Unions Bureau.
FS 3.309: nos.....	Research reports.
FS 3.310: v.nos.& nos.....	Credit union statistics (monthly).
	Education Office.
FS 5.85: date.....	National Advisory Council on Vocational Education annual report.
FS 5.216: nos.....	Miscellaneous publications: Nursery schools and kindergartens, OE 16,000-16,999.
FS 13.13½: date.....	Food and Drug Administration.
	National drug code directory.
	Social and Rehabilitation Service.
FS 17.8: CT.....	Handbooks, manuals, guides.
FS 17.8/2: CT.....	Manuals for volunteer probation programs.
FS 17.16: Reserved	
FS 17.17: CT.....	Bibliographies and lists of publications.
	NOTE.—See, for earlier similar class, FS 14.13: (CT).
FS 17.18: v.nos.& nos.....	Research briefs.
FS 17.19: nos.....	Public assistance reports.

NOTE.—See, for earlier class, FS 14.213: (nos.).

- Rehabilitation Services Administration.
 FS 17.108: CT----- Handbooks, manuals, guides.
 NOTE.—See, for earlier class, FS 13.217/2: (CT).
 Children's Bureau.
 FS 17.216: Reserved
 FS 17.217: CT----- Addresses.
 NOTE.—See, for earlier class, FS 14.110: (CT).
 Aging Administration.
 FS 17.310/2: CT----- Federal financial assistance for projects in aging.
 NOTE.—See, for earlier class, FS 15.13: (CT).
 Assistance Payments Administration.
 FS 17.409: date----- Impact on public assistance caseloads of: (a) Public assistance work and training programs, and (b) Training programs under Manpower development and training act (quarterly).
 NOTE.—See, for earlier class, FS 14.219: (date).
 National Center for Social Statistics.
 FS 17.601: date----- Annual report.
 FS 17.602: date----- General publications.
 FS 17.603: -609: Reserved
 FS 17.610: date----- Advance release of statistics on public assistance and Appendix on work experience and training programs under Title 5 of Economic opportunity act as amended, NCSS report A-2 (monthly).
 NOTE.—See, for earlier class, FS 17.10: (date).
 FS 17.611: date----- Unemployed-parent segment of aid to families with dependent children, NCSS report A-3 (monthly).
 NOTE.—See, for earlier class, FS 17.11: (date).
 FS 17.612: Reserved
 FS 17.613: date----- Reasons for opening and closing public assistance cases, NCSS report A-5 (semiannual).
 NOTE.—See, for earlier class, FS 17.411: (date).
 FS 17.614: Reserved
 FS 17.615: date----- Public assistance, annual statistical data, NCSS report A-7.
 NOTE.—See, for earlier class, FS 17.13: (date).
 FS 17.616: date----- Medical assistance financed under public assistance titles of Social Security Act, NCSS report B-1.
 NOTE.—See, for earlier class, FS 17.2: M 46/2.
 FS 17.617: date----- Public assistance, vendor payments for medical care by type of service, calendar year, NCSS report B-2.
 NOTE.—See, for earlier class, FS 14.221: (date).
 FS 17.618: -619: Reserved
 FS 17.620: date----- Medicaid, fiscal year, NCSS report B-5.
 FS 17.621: -624: Reserved
 FS 17.625: date----- OAA and AFDC, cost standards for basic needs and percent of such standards met for specified types of cases, NCSS report D-2.
 NOTE.—See, for earlier class, FS 17.2: OI 1.
 FS 17.626: date----- State maximums and other methods for limiting money payments to recipients of special types of public assistance, NCSS report D-3.
 NOTE.—See, for earlier class, FS 17.2: P 96/date.

- FS 17.627: date----- Money payments to recipients of special types of public assistance, NCSS report D-4.
NOTE.—See for earlier class, FS 14.202: P 96/4/ date.
- FS 17.628: date----- Statistical report on social services, Form FS-2069, quarter ended, NCSS report E-1.
NOTE.—See, for earlier class, FS 17.12: (date).
- FS 17.629: date----- Public welfare personnel, annual statistical data, NCSS report E-2.
NOTE.—See, for earlier class, FS 17.13/2: (date).
- FS 17.630: date----- Progress report on staff development for fiscal year, NCSS report E-3.
NOTE.—See, for earlier class, FS 17.2: St 1/ date.
- FS 17.631: date----- Source of funds expended for public assistance payments, fiscal year.
NOTE.—See, for earlier class, FS 14.215: (date).
- FS 17.632: Reserved
- FS 17.633: date----- Public assistance, costs of State and local administration, services, and training, fiscal year, NCSS report F-3.
NOTE.—See, for earlier class, FS 14.202: P 96/7/ date.
- FS 17.634: Reserved
- FS 17.635: date----- Impact on public assistance caseloads of (a) Public assistance work and training programs, and (b) Training programs under Manpower development and training act, NCSS G-1 (quarterly).
NOTE.—See, for earlier class, FS 17.409: (date).
- FS 17.636: date----- Concurrent receipt of public assistance money payments and old-age, survivors, and disability insurance cash benefits by persons aged 65 or over.
NOTE.—See, for earlier class, FS 17.402: P 96/ date.
- FS 17.637: Reserved
- FS 17.638: date----- Child welfare statistics, NCSS report CW-1.
- FT 1.12/2: nos----- Federal Trade Commission.
Advisory opinion digests.
- GS 2.10/7: date----- Federal Supply Service.
Federal Supply catalog: National supplier change index (quarterly).
NOTE.—Replaces GSA stock catalog supplements, GS 2.10/6: pt. 1/date/supp. (nos.).
- GS 2.15: date----- Inventory of automatic data processing equipment in United States Government, fiscal year.
NOTE.—See, for earlier class, PrEx 2.12: (date).
- GS 4.17/3: CT----- National Archives and Records Service.
Bibliographies and lists of publications.
- GS 4.22: nos----- General information leaflets.
- GS 4.23: v. nos. & nos----- Prologue, journal of the National Archives.
- HH 1.15/4: nos----- Housing and Urban Development Department.
HUD newsletter.
- HH 1.34: Reserved
- HH 1.35: letters/nos----- HUD Clearinghouse Service HCS- (series).
- HH 2.6/7: nos----- Federal Housing Administration.
Technical standards training guide (series).

- HH 2.26: date_____ FHA low cost housing trends.
 NOTE.—Designated RR: 252.
- HH 2.27: date_____ FHA monthly report of operations.
 Urban Management Assistance Administration.
- HH 8.1: date_____ Annual report.
- HH 8.2: CT_____ General publications.
- HH 8.3: —8: Reserved
- HH 8.9: date_____ Abstracts of "701" planning reports (semi-annual).
 Interior Department.
- I 1.84/4: nos_____ Native American arts (series).
- I 1.84/5: nos_____ Indian Arts and Crafts Board: Bibliography (series).
- I 1.87/4: nos_____ Desalting plants inventory report (annual).
 Geological Survey.
- I 19.45/3-2: date_____ Average monthly discharge for 15-year base period at selected gaging stations and change of storage in certain lakes and reservoirs in Pacific Northwest.
 NOTE.—See, for earlier class, I 19.2: P 11/date.
- I 19.55/2: date_____ Program of Water Resources Division, Texas District, and Summary of District activities, fiscal year.
- I 19.57: nos_____ Investigation of floods in Hawaii, progress reports (annual).
- I 19.58: CT_____ Compilation of hydrologic data [by area].
 Interior Department Library.
- I 22.8/2: date_____ Accessions lists.
 Mines Bureau.
- I 28.26/6: nos_____ Mineral Industry Health Program, technical progress reports.
- I 28.59/3: date_____ Copper industry, annual.
- I 28.61/2: date_____ Gold and silver, monthly.
 NOTE.—See, for earlier separate classes, I 28.61: (date) and I 28.62: (date).
- National Park Service.
- I 29.6/4: CT_____ National rivers [information circulars].
- I 29.9/4a: CT_____ Compilations of administrative policies (separates).
- I 29.20/2: CT_____ National parks, USA [poster series].
- I 29.75: CT_____ National Park Service governor's books [by State].
 Sport Fisheries and Wildlife Bureau.
- I 49.70: nos_____ Investigations in fish control.
- I 49.71: nos_____ Wildlife portrait series.
- I 49.72: Reserved
- I 49.73: date_____ Accident control reports (annual).
 Oil and Gas Office.
- I 64.8: CT_____ Handbooks, manuals, guides.
 Federal Water Pollution Control Administration.
- I 67.1/2: date_____ Water pollution control, federal costs, report to Congress.
- I 67.8/2: CT_____ Industrial waste guides.
 NOTE.—See, for earlier class, FS 2.71: (CT).
- I 67.14/2: v.nos_____ Environmental factors in coastal and estuarine waters, bibliographic series.
- I 67.18: CT_____ Addresses.
- I 67.19: nos_____ Robert A. Taft Water Research Center: Report TWRC—(series).
 Alaska Power Administration.
- I 68.1: date_____ Annual report.
- I 68.2: CT_____ General publications.

- IC 1 ste. 19/3: date_____ Interstate Commerce Commission.
Operating revenues and expenses of class 1 railroads in United States (switching and terminal companies not included), statement Q-100 (R & E).
NOTE.—Replaces statements Q-100, Operating revenues and operating expenses (IC 1 ste. 19:); Q-100-AS, Advance summary of revenues, expenses, and net railway operating income (IC 1 ste. 19/2:); and Q-150, Operating revenues and operating expenses—selected items for large railroads (IC 1 ste. 20:).
- J 1.1/2: date_____ Justice Department.
Annual report of Law Enforcement Assistance Administration.
J 1.35: nos_____ LEEP award list.
J 1.35/2: nos_____ LEEP [Law Enforcement Education Program] newsletter (monthly).
Prisons Bureau.
J 16.24: date_____ Basic data book (annual).
Narcotics and Dangerous Drugs Bureau.
J 24.3: v. nos. & nos_____ BNDD bulletin.
J 24.7: (CT) Reserved
J 24.8: CT_____ Handbooks, manuals, guides.
Labor Department.
L 1.7/5: nos_____ Occupational guides.
NOTE.—See, for earlier similar class, L 7.32: (CT).
L 1.39/9: v. nos. & nos_____ Manpower (monthly).
NOTE.—Replaces Unemployment insurance review (L 7.18/3: v. nos. & nos.) and Employment Service review L 7.18/2: v. nos. & nos.).
L 1.39/10: date_____ Manpower technical exchange.
L 1.42/2-2: date_____ Statistics on manpower, supplement to Manpower report of the President.
L 1.58: nos_____ JCH (series).
NOTE.—See, for earlier class, PrEx 10.10: (nos.).
Labor Statistics Bureau.
L 2.61/10: date_____ Wholesale price indexes, advance summary.
L 2.71/4: nos_____ North Central regional reports.
L 2.71/5: nos_____ BLS staff papers.
L 2.71/6: nos_____ Regional reports, Middle Atlantic Region.
L 2.72/4: CT_____ Directory of labor organizations in [various countries].
NOTE.—Some issues entitled Labor conditions and labor organizations.
Employment Security Bureau.
L 7.69: nos_____ United States Employment Service test research reports.
L 7.70: date_____ Unemployment insurance tax rates by industry (annual).
NOTE.—See, for earlier publication, L 7.61: U-258.
Unemployment Insurance Service.
L 33.1: date_____ Annual report.
L 33.2: CT_____ General publications.
L 33.3: -8: Reserved
L 33.9: nos_____ Benefit series service, unemployment insurance report (monthly).
NOTE.—See, for earlier class, L 7.37: (date).
Training and Employment Service.
L 34.1: date_____ Annual report.
L 34.2: CT_____ General publications.
L 34.3: -7: Reserved
L 34.8: CT_____ Handbooks, manuals, guides.

- L 34.9 : date_____ Area trends in employment and unemployment (monthly).
NOTE.—See, for earlier class, L 7.51/3 : (date).
- L 34.10 : nos_____ Industry manpower surveys.
NOTE.—See, for earlier class, L 7.49 : (nos.).
- LC 1.30/1-2 : date_____ Library of Congress.
India, accessions list, annual supplement, cumulative list of serials.
- LC 1.30/2-3 : date_____ Accessions list : Pakistan, index [cumulations].
- LC 1.32/2 : CT_____ Federal Library Committee publications.
- LC 1.33 : nos_____ News from the Center [for the Coordination of Foreign Manuscript Copying].
- NAS 1.5 : CT_____ National Aeronautics and Space Administration.
Laws.
- NAS 1.43 : CT_____ NASA posters.
- NAS 1.43/2 : nos_____ NASA picture sets.
- NAS 1.44 : v. nos. & nos_____ Computer program abstracts (quarterly).
- NAS 1.45 : nos_____ Mission reports, MR—(series).
- NF 1.3 : -4 : Reserved National Foundation on the Arts and Humanities.
- NF 1.5 : CT_____ Laws.
- NS 1.28 : nos_____ National Science Foundation.
National Science Board NSB (series).
- NS 2.11 : CT_____ Science Information Service Office.
Addresses.
- P 1.31/5 : nos_____ Post Office Department.
Personnel handbook, series P.
- P 24.6/3 : nos_____ Criteria for use in planning new facilities, CR (series).
- Pr 37.1 : date_____ President of United States (Richard M. Nixon) (Jan. 20, 1969—).
Report.
- Pr 37.2 : CT_____ General publications.
- PrEx 1.10/3a : CT_____ President of United States.
President's Committee on Employment of the Handicapped : Performance (separates).
- PrEx 4.19 : nos_____ Emergency Preparedness Office.
National Resource Analysis Center, Systems Evaluation Division : Report R (series).
- PrEx 10.8/2 : nos_____ Economic Opportunity Office.
VISTA manuals.
- PrEx 10.8/3 : Reserved OEO training manuals.
- PrEx 10.8/4 : nos_____ OEO manuals.
- PrEx 10.8/5 : nos_____ Community profiles.
- PrEx 10.9/5 : CT_____ OEO pamphlets.
- PrEx 10.23 : nos_____ Federal outlays (annual).
- PrEx 10.24 : CT_____ National Council on Marine Resources and Engineering Development.
- PrEx 12.3 : -7 : Reserved Handbooks, manuals, guides.
- PrEx 12.8 : CT_____ CMREF pamphlets.
- PrEx 12.9 : nos_____ NOTE.—Continuation of ICO pamphlet series, Y 3.F 31/16 : 9/ (nos.).
- PrEx 12.10 : date_____ Marine research, fiscal year.
- RR 1.14 : nos_____ Railroad Retirement Board.
RRB actuarial studies.
- S 1.70/5 : nos_____ State Department.
International organizations series.
- S 1.126/2 : CT_____ Foreign Affairs Research Documentation Center : Papers available, special.
- S 5.48/14 : CT_____ NOTE.—Formerly Foreign Area Research Documentation Center.
U.S. National Commission for UNESCO memos.

- S 9.12/2: v. nos----- Treaties and other international agreements of United States, 1776-1949.
International Development Agency.
- S 18.1/2: date----- Operations of Office of Private Resources.
- S 18.21/2: CT----- Bibliographies and lists of publications.
NOTE.—See, for earlier class, S 17.39/2:(CT).
- S 18.28/a: CT----- Proposed foreign aid program fiscal year, summary presentation to Congress (separates).
- S 18.37: CT----- Economic growth trends [by region].
- S 18.38: nos----- Public administration bulletin [for] Vietnam (monthly).
Securities and Exchange Commission.
- SE 1.25/14: nos----- Asian Development Bank act, releases.
Smithsonian Institution.
- SI 1.25: nos----- Atoll research bulletins.
NOTE.—Nos. 1-117 issued by National Research Council.
- SI 1.26: nos----- Smithsonian contributions to earth sciences.
- SI 1.27: nos----- Smithsonian contributions to zoology.
- SI 1.28: Reserved
- SI 1.29: nos----- Smithsonian contributions to botany.
- SI 1.30: nos----- Smithsonian contributions to paleobiology.
National Gallery of Art.
- SI 8.3: -7: Reserved
- SI 8.8: CT----- Handbooks, manuals, guides.
- SI 8.9: date----- Report and studies in history of art (annual).
Internal Revenue Service.
- T 22.25/5: date----- Index-digest supplement system: Service 1, Income tax.
- T 22.25/6: date----- — Service 2, Estate and gift taxes.
- T 22.25/7: date----- — Service 3, Employment taxes.
- T 22.25/8: date----- — Service 4, Excise taxes.
- T 22.25/9: date----- — Service 5, Alcohol, tobacco and firearms.
- T 22.44/2: nos----- Tax information, IRS publications.
Secret Service.
- T 34.1/2: date----- Report to the public.
Accounts Bureau.
- T 63.113/a: CT----- Combined statement of receipts, expenditures, and balances of United States Government (separates).
Transportation Department.
- TD 1.10/2: date----- Annual report to Congress on administration of National traffic and motor vehicle safety act of 1966.
- TD 1.10/3: date----- Annual report to Congress on administration of Highway Safety act of 1966.
- TD 1.10/4: date----- Annual report of Secretary of Transportation on administration of Natural gas pipelines safety act of 1968.
- TD 1.12: date----- Summer youth opportunity program annual report.
- TD 1.13: date----- National Motor Vehicle Safety Advisory Council summary report (annual).
- TD 1.14: CT----- Transportation forecast (series).
National Transportation Safety Board.
- TD 1.108: CT----- Handbooks, manuals, guides.
- TD 1.109/3: date----- Briefs of accidents involving air taxi operations, U.S. general aviation.
- TD 1.109/4: date----- Briefs of accidents involving aerial applications operations, U.S. general aviation.
- TD 1.109/5: date----- Briefs of accidents involving rotorcraft, U.S. general aviation.
- TD 1.109/6: date----- Briefs of accidents involving amateur built (homebuilt) aircraft, U.S. general aviation.
- TD 1.109/7: date----- Briefs of accidents involving mid-air collisions, U.S. civil aviation.

TD 1.112/4: CT-----	Railroad-highway accident reports.
TD 1.113/2: date-----	Annual review of U.S. air carrier accidents, occurring in calendar year.
TD 1.113/3: date-----	Analysis of aircraft accident data, U.S. general aviation.
	NOTE.—See, for earlier class, TD 1.102: Ai 7/3/ date.
TD 1.113/4: date-----	Analysis of accidents involving air taxi operations, U.S. general aviation.
TD 1.113/5: date-----	Analysis of aircraft accident data, U.S. air carrier operations.
TD 1.113/6: date-----	Analysis of aircraft accident data: U.S. civil aviation.
	NOTE.—See, for earlier class, TD 1.102: Ai 7/2/ date.
TD 1.115: date-----	List of publications.
TD 2.8: CT-----	Federal Highway Administration.
TD 2.12: Reserved	Handbooks, manuals, guides.
TD 2.13: nos-----	Highway planning notes (irregular).
	NOTE.—See, for earlier class, TD 2.111: (nos.).
	Public Roads Bureau.
TD 2.113/2: nos-----	Highway research and development news, plant ecology and esthetics, progress and implementation.
TD 2.119: CT-----	Addresses.
	NOTE.—See, for earlier class, C 37.21: (CT).
TD 2.120: nos-----	Highway planning technical reports.
	NOTE.—See, for earlier class, C 37.27: (nos.).
TD 2.121: date-----	Report on status of multiple use and joint development.
TD 2.121/2: CT-----	Development of multiple use facilities on highway right-of-way [by area].
TD 2.122: Reserved	
TD 2.123: CT-----	Bibliographies and list of publications.
TD 2.124: date-----	New developments in highways.
TD 2.125: date-----	Conference proceedings [of] AASHO Committee on Electronics.
	National Highway Safety Bureau.
TD 2.210/3: nos-----	Highway safety literature compilations.
TD 2.210/4: nos-----	Highway safety literature indexes.
TD 2.212: date-----	Executive summaries, National Highway Safety Bureau contractors report (annual).
	Motor Carrier Safety Bureau.
TD 2.303: v. nos. & nos-----	On guard, Bureau of Motor Carrier Safety bulletin.
TD 2.310/2: date-----	Accidents of class 1 motor carriers of passengers.
TD 2.311: date-----	Selected safety road checks motor carriers of property.
	NOTE.—See, for earlier class, TD 2.302: R 53/ (date).
TD 2.312: date-----	Analysis of motor carrier accidents involving vehicle defects or mechanical failure.
	NOTE.—See, for earlier similar publication, IC 1 mot. 20: (date).
TD 2.312/2: date-----	Analysis of accident reports involving fire.
	NOTE.—See, for earlier class, TD 2.302: Ac 2/ date.
	Federal Railroad Administration.
TD 3.5: CT-----	Laws.
	Railroad Safety Bureau.
TD 3.104:—108: Reserved	

- TD 3.109: date----- Rail-highway grade-crossing accidents for year ended.
 NOTE.—See, for earlier class, IC 1 acci. 8: (date).
- Federal Aviation Administration.
- TD 4.6/2: Reserved
 TD 4.6/3: v. nos----- Federal aviation regulations (by volume).
 TD 4.16/2: v. nos. & nos----- Alaska airman's guide and chart supplement (monthly).
 TD 4.17/4: date----- Current legal literature (bimonthly).
 TD 4.17/5: CT----- Bibliographies and lists of publications.
 TD 4.19/4: date----- Military air traffic activity report.
 TD 4.21: date----- National field office directory.
 NOTE.—See, for earlier class, FAA 1.43: (date), Field facility directory.
- TD 4.25: -27: Reserved
 TD 4.28: date----- Acceptable methods, techniques, and practices: Aircraft alterations.
 NOTE.—See, for earlier class, FAA 5.16: (date).
- TD 4.28/2: date----- Acceptable methods, techniques, and practices: Aircraft inspection and repair.
 NOTE.—See, for earlier class, FAA 5.15: (date).
- TD 4.29: CT----- Addresses.
 NOTE.—See, for earlier class, FAA 1.12: (CT).
- TD 4.30: nos----- System package program, NS-SIP- (series).
 TD 4.31: date----- Annual national aviation system planning review conference, summary report.
 TD 4.32: nos----- National Aviation Facilities Experimental Center, Atlantic City, New Jersey: Report NA- (series).
 Airports Service.
 TD 4.108: CT----- Handbooks, manuals, guides.
 NOTE.—See, for earlier class, FAA 8.8: (CT).
- Air Traffic Service.
 TD 4.311: date----- Non compulsory radio fixes.
 TD 4.312: date----- Index of standard instrument approach procedures (semiannual).
 Flight Standards Service.
 TD 4.411: CT----- Tentative airworthiness standards.
 Systems Research and Development Service.
- TD 4.503: -508: Reserved
 TD 4.509: nos----- Report RD (series).
 NOTE.—This notice cancels the TD 4.23: class with same title.
- TD 4.510: CT----- Addresses.
 Aircraft Development Service.
 TD 4.601: date----- Annual report.
 TD 4.602: CT----- General publications.
 TD 4.603: -608: Reserved
 TD 4.609: CT----- Bibliographies and lists of publications.
 TD 4.610: CT----- Addresses.
 TD 4.611: nos----- Report FAA DS- (series).
 Coast Guard.
 TD 5.20: CT----- Equipment lists.
 NOTE.—See, for earlier class, T 47.51 (CT).
- TD 5.21: Reserved
 TD 5.22: nos----- Civil engineering reports.
 NOTE.—See, for earlier class, T 47.42/2: (nos.).
- TD 5.23: date----- Proceedings of national data buoy systems scientific advisory meetings.
- Urban Mass Transportation Administration.
 TD 7.1: date----- Annual report.
 TD 7.2: CT----- General publications.

TD 7.3: -8: Reserved	
TD 7.9: date-----	Directory of research, development & demonstration projects. Federal Field Committee for Development Planning in Alaska.
Y 3.A1 1 s/4: 1/date-----	Report.
Y 3.A1 1 s/4: 2 CT-----	General publications. Appalachian Regional Commission.
Y 3.Ap 4/2: 3-: 7 Reserved	
Y 3.Ap 4/2: 8 CT-----	Handbooks, manuals, guides.
Y 3.Ap 4/2: 9 Reserved	
Y 3.Ap 4/2: 10/nos-----	Research reports. Coastal Plains Regional Commission.
Y 3.C 63/2: 7/nos-----	Press releases. Coinage Joint Commission.
Y 3.C 66: 1/date-----	Report.
Y 3.C 66: 2 CT-----	General publications.
Y 3.Ed 8: Reserved	
	National Advisory Council on Education of Disadvantaged Children.
Y 3.Ed 8/2: 1/date-----	Annual report. National Advisory Council on Education Professions Development.
Y 3.Ed 8/3: 1/date-----	Annual report. Equal Employment Opportunity Commission.
Y 3.Eq 2: 12/nos-----	Equal employment opportunity reports. Executive, Legislative, and Judicial Salaries, Commission on.
Y 3.Ex 3/3: 1/date-----	Report. Federal Deposit Insurance Corporation.
Y 3.F 31/S: 20 CT-----	Summary of accounts and deposits in all commercial banks [by districts].
	NOTE.—See, for earlier class, Y 3.F 31/S: 2 Ac 2/date.
Y 3.F 31/S: 21/date-----	Summary of accounts and deposits in all mutual savings banks.
	NOTE.—See, for earlier class, Y 3.F 31/S: 2 Ac 2/2/date.
	Federal Council for Science and Technology.
Y 3.F 31/16: 13 CT-----	Interdepartmental Committee for Meteorological Services publications. Inter-Agency Committee on Mexican American Affairs.
Y 3.In 8/23: 10 CT-----	Bibliographies and lists of publications. Mortgage Interest Rates Commission.
Y 3.M 84: 1/date-----	Report. Pacific Southwest Inter-Agency Committee.
Y 3.P 11/2: 1/date-----	Report.
Y 3.P 11/2: 2 CT-----	General publications.
Y 3.P 11/3: Reserved	
	Pacific Northwest River Basins Commission.
Y 3.P 11/4: 1/date-----	Report.
Y 3.P 11/4: 2 CT-----	General publications.
Y 3.P 11/4: 3-8: Reserved	
Y 3.P 11/4: 9/date-----	Review of power planning in Pacific Northwest, calendar year.
Y 3.P 11/4: 10 CT-----	River mile index. Tennessee Valley Authority.
Y 3.T 25: 37/date-----	Fish monitoring investigations, Browns Ferry Nuclear Plant, Wheeler Reservoir, Ala. (quarterly).
Y 3.T 25: 38/nos-----	Division of Water Control Planning: Reports. Water Resources Council.
Y 3.W 29: 8 CT-----	Handbooks, manuals, guides.
Y 3.W 29: 9/nos-----	Joint hydrology-sedimentation bulletins.

NOTE.—See, for earlier class, Y 3. In S/S: 9/ (nos.)

- Y 3.W 58/10:1/date----- White House, Committee for Preservation of.
Report.
Internal Security Committee, House.
Y 4.In 8/15: CT----- Publications.
Nutrition and Human Needs, Select Committee
on, Senate.
Y 4.N 95: CT----- Publications.

Discontinued Series

- A 88.18/21: v.nos.& nos----- Consumer and Marketing Service.
Grain market news, quarterly summary and
statistics.
NOTE.—Discontinued with v. 11, no. 3, Aug. 6,
1968.
A 95.9: nos----- International Agricultural Development Service.
International agricultural development news-
letter (monthly).
NOTE.—Discontinued with no. 40, Feb. 1968.
C 4.9/12: list/date----- Coast and Geodetic Survey.
Dates of latest editions, United States flight
information publications. (Issued every 4
weeks).
NOTE.—Discontinued with issue dated Jan. 9,
1969.
C 30.12: date----- Weather Bureau.
Daily weather map.
NOTE.—Discontinued with issue for Apr. 14,
1968. Replaced by C 52.11/2:(date), Daily weather
maps, weekly series.
C 52.9: v.nos.& nos----- Environmental Science Services Administration.
Radio science (monthly).
NOTE.—Discontinued as a U.S. Government pub-
lication with v. 3, no. 12, Dec. 1968.
CS 1.32/2: date----- Civil Service Commission.
Monthly report of Federal employment.
NOTE.—Discontinued with issue dated Oct. 1968.
CS 1.55: date----- Federal employment statistics bulletin
(monthly).
NOTE.—Discontinued with issue dated Apr. 1968.
D 1.43: nos----- Defense Department.
Selected economic indicators (monthly).
NOTE.—Discontinued with issue no. 13, dated
June 28, 1968.
D 102.28/5: nos----- Adjutant General's Office (Army).
Selected periodical literature, list (monthly).
NOTE.—Discontinued with List no. 68-2 dated
Mar.-Apr. 1968.
D 202.17: date----- Naval Air Systems Command.
Employment opportunities (bimonthly).
NOTE.—Discontinued with issue dated Sept. 1,
1966.
D 303.9: v. nos. & nos----- Air Force Department.
Air Force writing (quarterly).
NOTE.—Discontinued with v. 3, no. 3, Aug. 1967.
FHL 1.8: date----- Federal Home Loan Bank Board.
Nonfarm real estate foreclosure report
(quarterly).
NOTE.—Discontinued with 4th quarter 1968
issue. Replaced by Real estate foreclosure report,
FHL 1.8/2:(date).

- FR 1.46: date----- Federal Reserve System Board of Governors.
List of stocks registered on National securities exchange and of securities of certain investment companies.
NOTE.—Discontinued with issue for Dec. 31, 1967.
- IC 1 ste. 19: date----- Interstate Commerce Commission.
Operating revenues and operating expenses of class 1 railroads in United States (switching and terminal companies not included), statement Q-100.
NOTE.—Discontinued with 4th qtr. 1967 issue.
- IC 1 ste. 20: date----- Operating revenues and operating expenses, selected items for large railroads, statement Q-150.
NOTE.—Discontinued with 4th qtr. 1967 issue.
- J 16.11: v.nos.& nos----- Prisons Bureau.
New era (irregular).
NOTE.—Discontinued with v. 54, Summer 1968.
- L 7.18/2: v. nos. & nos----- Employment Security Bureau.
Employment Service review (monthly).
NOTE.—Discontinued with Dec. 1968 issue.
- L 7.18/3: v. nos. & nos----- Unemployment insurance review (monthly).
NOTE.—Discontinued with Dec. 1968 issue.
- NS 1.17: v. nos. & nos----- National Science Foundation.
Scientific information notes (bimonthly).
NOTE.—Discontinued with v. 10, nos. 5, 6, Oct.-Dec. 1968.
- RR 1.7/2: v. nos. & nos----- Railroad Retirement Board.
Monthly Review.
NOTE.—Discontinued with v. 29, no. 3.
- SI 3.6: v. nos./nos----- National Museum.
Proceedings of National Museum.
NOTE.—Discontinued with v. 125, 1968.
- T 22.25/3: trans. nos----- Internal Revenue Service.
Internal revenue bulletin, index-digest quarterly system: Service 1, Tax matters other than alcohol, tobacco, and firearms. (Document 5378.)
NOTE.—Discontinued with Trans. 15, July-Sept. 1968.
- T 22.25/4: trans. nos----- Internal revenue bulletin, index-digest quarterly system: Service 2, Alcohol, tobacco, and firearms taxes. (Document 5379.)
NOTE.—Discontinued with Trans. 15, July-Sept. 1968.

Corrections for Previous Monthly Catalogs

- Dec. 1963. Entry 21103, Going into business? then you should attend workshop for prospective business owners. Correct class to read SBA 1.2: B 96.
- Aug. 1968. Entry 11433, Part 430, Rules pertaining to aircraft accidents, incidents, overdue aircraft, and safety investigations, etc. Correct class to read TD 1.106/2: 968.
- June 1969. Entry S699, Short-term training courses under professional nurse traineeship program of Public Health Service. Correct class to read FS 2.22: N 93/7/supp. B/969.
- Entry S818, Buying and selling a small business; by Verne A. Bunn. Correct class to read SBA 1.2: B 98.
- Oct. 1969. Entry 14806, Schools offering nurse traineeships for full-time academic study, 1969-70. Correct class to read FS 2.22: N 93/7/supp. A/969.
- Nov. 1969. Entry 16265, Short-term training courses under professional nurse traineeship program of U.S. Public Health Service. Revised July 1969. Correct class to read FS 2.22: N 93/7/supp. B/969-2.

List of Government Authors

	Beginning entry
Agricultural Department.....	16535
Agricultural Research Service.....	16528
Agricultural Stabilization and Conservation Service.....	16534
Consumer and Marketing Service.....	16900
Economic Research Service.....	16947
Food and Nutrition Service.....	17010
Foreign Agricultural Service.....	17011
Forest Service.....	17013
Rural Electrification Administration.....	17364
Soil Conservation Service.....	17385
Arms Control and Disarmament Agency.....	16580
Atomic Energy Commission.....	16603
Civil Aeronautics Board.....	16672
Civil Service Commission.....	16678
Commerce Department.....	16698
Business and Defense Services Administration.....	16638
Census Bureau.....	16645
Economic Development Administration.....	16936
Environmental Science Services Administration.....	16970
Weather Bureau.....	17438
Internatinoal Commerce Bureau.....	17104
Maritime Administration.....	17164
National Bureau of Standards.....	17261
Patent Office.....	17317
United States Travel Service.....	17431
Congress.....	16716
Atomic Energy Joint Committee.....	16745
Economic Joint Committee.....	16746
House of Representatives.....	16747
Agriculture Committee.....	16806
Appropriations Committee.....	16809
Armed Services Committee.....	16813
Education and Labor Committee.....	16816
Foreign Affairs Committee.....	16818
Government Operations Committee.....	16819
Interstate and Foreign Commerce Committee.....	16820
Judiciary Committee.....	16821
Public Works Committee.....	16822
Science and Astronautics Committee.....	16823
Veterans' Affairs Committee.....	16825
Ways and Means Committee.....	16826
Internal Revenue Taxation Joint Committee.....	16829
Reduction of Federal Expenditures Joint Committee.....	16832

Congress—Continued	Beginning Entry
Senate	16834
Agriculture and Forestry Committee	16877
Appropriations Committee	16878
Commerce Committee	16879
District of Columbia Committee	16882
Finance Committee	16883
Foreign Relations Committee	16884
Government Operations Committee	16885
Interior and Insular Affairs Committee	16887
Judiciary Committee	16888
Labor and Public Welfare Committee	16890
Nutrition and Human Needs, Select Committee on	16895
Post Office and Civil Service Committee	16897
Public Works Committee	16898
Small Business, Select Committee on	16899
Defense Department	16907
Air Force Department	16559
Armed Forces Information Service	16578
Army Department	16581
Civil Defense Office	16676
Engineers Corps	16968
Lake Survey	17158
Military History, Office of Chief of	17167
Joint Chiefs of Staff	17123
National Guard Bureau	17271
Navy Department	17316
Marine Corps	17162
Naval Facilities Engineering Command	17298
Naval Operations Office	17307
Naval Oceanographic Office	17299
Naval Personnel Bureau	17308
Naval Research Office	17312
Federal Communications Commission	16985
Federal Maritime Commission	16992
Federal Power Commission	16994
Federal Reserve System Board of Governors	16998
Federal Trade Commission	17005
Foreign Claims Settlement Commission	17012
General Accounting Office	17055
General Services Administration	17068
Federal Supply Service	17003
National Archives and Records Service	17259
Government Printing Office	17075
Public Documents Division	17328
Health, Education, and Welfare Department	
Education Office	16951
Public Health Service	17329
Consumer Protection and Environmental Health Service	
Food and Drug Administration	17008
National Institutes of Health	17273
National Library of Medicine	17283

	Beginning Entry
Health, Education, and Welfare Department—Continued	
Social and Rehabilitation Service.....	17377
Children's Bureau.....	16671
National Center for Social Statistics.....	17266
Social Security Administration.....	17380
Federal Credit Unions Bureau.....	16987
Housing and Urban Development Department.....	17076
Federal Housing Administration.....	16989
Interior Department.....	17093
Internal Revenue Service.....	17100
Bonneville Power Administration.....	16637
Fish and Wildlife Service	
Commercial Fisheries Bureau.....	16711
Sport Fisheries and Wildlife Bureau.....	17394
Federal Water Pollution Control Administration.....	17006
Geographic Names Board.....	17069
Geological Survey.....	17070
Land Management Bureau.....	17160
Mines Bureau.....	17168
National Park Service.....	17286
Outdoor Recreation Bureau.....	17316A
Reclamation Bureau.....	17361
Solicitor, Office of.....	17393
Interstate Commerce Commission.....	17122
Joint Publications Research Service.....	17124
Labor Department.....	17137
Labor Statistics Bureau.....	17154
Manpower Administration	
Apprenticeship and Training Bureau.....	16577
Employment Security Bureau.....	16967
Training and Employment Service.....	17419
Unemployment Insurance Service.....	17430
Wage and Labor Standards Administration	
Employees' Compensation Appeals Board.....	16965
Employees' Compensation Bureau.....	16966
Labor Standards Bureau.....	17142
Wage and Hour and Public Contracts Divisions.....	17437
Women's Bureau.....	17440
Library of Congress	
Copyright Office.....	16904
National Aeronautics and Space Administration.....	17195
National Science Foundation.....	17295
Post Office Department.....	17320
President of United States.....	17327
Executive Office of the President	
Economic Opportunity Office.....	16945
Science and Technology Office.....	17366
Securities and Exchange Commission.....	17368
Small Business Administration.....	17369
Smithsonian Institution.....	17371
National Collection of Fine Arts.....	17270
National Museum.....	17285

	Beginning Entry
State Department.....	17398
International Development Agency.....	17121
Tariff Commission.....	17415
Tennessee Valley Authority.....	17418
Transportation Department	
Coast Guard.....	16696
Federal Aviation Administration.....	16975
Aviation Medicine Office.....	16635
Federal Highway Administration	
Motor Carrier Safety Bureau.....	17194
National Transportation Safety Board.....	17297
Urban Mass Transportation Administration.....	17433
Treasury Department.....	17421
Customs Bureau.....	16906
Veterans Administration.....	17434

Monthly Catalog

NO. 899 • DECEMBER 1969

AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, DC 20250

- 16528 Annotated index of registered fungicides and nematocides, their uses in United States; [by Edward P. Carter, Daniel O. Betz, and Charles T. Mitchell]. [Aug. 1969.] cover title, [1392] p. 4° (Pesticides Regulation Division.) [Issued in looseleaf form. Text on p. 2 of cover.] * Paper, \$9.00. ● Item 44
L.C. card 73-604359 A 77.302 : F 96
ARS (series). A 77.15 : (nos.)
- 16529 71-23-7. Composition of oilseeds, list of publications for 1968, of Northern Utilization Research and Development Division, Peoria, Ill. Aug. 1969. 4 p. 4° †
- 16530 71-25-7. Edible soybean oil, list of publications for 1968, of Northern Utilization Research and Development Division, Peoria, Ill. Aug. 1969. 3 p. 4° †
- 16531 71-27-7. Chemically modified oil products and industrial uses, list of publications and patents for 1968, of Northern Utilization Research and Development Division, Peoria, Ill. Aug. 1969. 4 p. 4° †
- 16532 Food makes the difference, list of references, Oct. 1969. 7 p. 4° [Prepared in cooperation with Consumer and Marketing Service, Federal Extension Service, and Food and Nutrition Service.] * Paper, 10c. ● Item 88
A 77.714 : F 73
- 16533 National tick surveillance program, calendar year 1968, June 16, 1969. 15 p. il. 4° (Animal Health Division.) †
A 77.237/2 : 968

AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE, Agriculture Dept., Washington, DC 20250

- 16534 ASCS aerial photography status maps, as of June 30, 1969. [1969.] cover title, 1 p. 68 maps. 4° [Issued with perforations.] †
L.C. card 70-604453 A 82.2 : Ae 8/969

AGRICULTURE DEPARTMENT Washington, DC 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

Agriculture handbook.

- 16535 54. Cheese varieties and descriptions [with list of selected references; by Dairy Products Laboratory, Eastern Utilization Research and Development Division, Agricultural Research Service.]. [Issued Dec. 1953, slightly revised Sept. 1969.] [1969.] cover title, [1]+151 p. [Text on p. 2 of cover.] * Paper, 65c. ● Item 3
L.C. card 78-604379 A 1.76 : 54/969

Agriculture information bulletin.

- 16536 230. Farm costs and returns, commercial farms, by type, size, and location; [prepared by Wylie D. Goodsell and others]. Revised Sept. 1969. [1969.] cover title, ii+23 p. il. 4° (Economic Research Service.) * Paper, 25c.
● Item 4
L.C. card 57-60999 A 1.75 : 230/10

♣For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 1

GOVERNMENT PUBLICATIONS

Farmers' bulletins. ● Item 9 A 1.9:(nos.)

- 16537 2148. Aphids on leafy vegetables, how to control them; [by W. J. Reid, jr. and F. P. Cuthbert, jr.]. [Revised Feb. 1966, slightly revised Sept. 1969.] (Entomology Research Division, Agricultural Research Service.) * Paper, 15c.
L.C. card 72-60440
- 16538 2196. Finishing beef cattle; [prepared by Animal Husbandry Research Division, Agricultural Research Service.] [Issued Mar. 1964, slightly revised Nov. 1969.] [1969.] [2]+30 p. il. [Supersedes Farmers' bulletin 1549, Feeding cattle for beef.] * Paper, 20c.
L.C. card 70-604385

Home and garden bulletins. ● Item 11 A 1.77:(nos.)

- 16539 77. Family food stockpile for survival. [Aug. 1961, slightly revised Aug. 1969.] [1969.] 16 p. il. [Prepared in cooperation with Civil Defense Office, Defense Department.] * Paper, 10c.
L.C. card 72-604581
- 16540 87. Growing figs in the South for home use. [Dec. 1962, slightly revised Sept. 1969.] 12 p. il. [Information furnished by A. H. Krezdorn, Head, Department of Fruit Crops, University of Florida, and by Crops Research Division, Agricultural Research Service. Supersedes Farmers' bulletin 1031, Fig growing in South Atlantic and Gulf States.] * Paper, 15c.
L.C. card 75-603985
- 16541 170. Meat and poultry, wholesome for you. [Oct. 1969.] [8] p. il. narrow 8° ([Consumer and Marketing Service.]) * Paper, 10c.
- 16542 172. Meat & poultry labeled for you. [Oct. 1969.] [8] p. il. narrow 8° ([Consumer and Marketing Service.]) * Paper, 10c.

Home economics research report.

- 16543 37. Family food buying guide for calculating amounts to buy, comparing costs; [by Elsie H. Dawson, Gladys L. Gilpin, and Lois H. Fulton]. Sept. 1969. [1]+60 p. oblong 24° (Agricultural Research Service.) * Paper, 35c.
● Item 11-B
L.C. card 75-604433 A 1.87: 37

Leaflet.

- 16544 550. Controlling white-fringed beetles; [prepared by Entomology Research Division and Plant Pest Control Division, Agricultural Research Service.]. [Sept. 1969.] 8 p. il. [Supersedes leaflet 401, White-fringed beetle, how to control it. Two illustrations are colored.] * Paper, 20c. ● Item 12 A 1.35: 550

Marketing bulletin.

- 16545 46. USDA's acceptance service for poultry and eggs. [Mar. 1969.] 12 p. il. oblong 24° * Paper, 15c. ● Item 13-G A 1.95: 46

Marketing research reports. ● Item 13-B A 1.82:(nos.)

- 16546 855. Statistical supplement to Commercial floriculture and related products, analysis of purchases and buyers of goods and services, marketing year ended May 1967; [by Richard Hall and Stephen M. Raleigh, jr.]. [Oct. 1969.] vii+39 p. 4° (Economic Research Service.) †
L.C. card 75-602727
- 16547 857. Overseas shipping tests of California citrus on pallets and in containers, interrelations between transit temperatures biphenyl pad placement, biphenyl content, and fruit condition; [by G. L. Rygg]. Oct. 1969. 15 p. il. 4° (Agricultural Research Service.) * Paper, 15c.
L.C. card 75-604224
- 16548 858. Regional and sectoral analysis of wheat-flour economy, transportation study [with list of literature cited; by Bruce H. Wright]. [Oct. 1969.] cover title, ii+46 p. il. 4° ([Marketing Economics Division], Economic Research Service.) [Prepared in cooperation with Agriculture and Home Economics Experiment Station, Iowa State University of Science and Technology.] * Paper, 50c.
L.C. card 72-604226

Miscellaneous publications. ● Item 13-A A 1.38:(nos.)

- 16549 1148. Corrals for sheep. Oct. 1969. [2] p. il. 4° (Cooperative farm building plan exchange; plan 6019.) * Paper, 5c.
- 16550 1149. Tie stalls for dairy calves. Oct. 1969. [2] p. il. 4° (Cooperative farm building plan exchange; plan 6057.) * Paper, 5c.
- 16551 1150. Portable sow feeders. Oct. 1969. [2] p. il. 4° (Cooperative farm building plan exchange; plan 6056.) * Paper, 5c.

PA [Program aid] (series). ● Item 14-A A 1.68:(nos.)

- 16552 917. Truth in seed labeling. [Sept. 1969.] [8] p. il. narrow 8° (Consumer and Marketing Service, Grain Division.) [Supersedes C&MS-49, Federal seed act.] * Paper, 10c.
- 16553 922. You're in good company, millions of Americans use USDA food stamps. [Sept. 1969.] [11] p. il. oblong 24° †
- 16554 932. Extension work in public affairs; [by E. J. Niederfrank and Doyle Spurlock]. [Aug. 1969.] 8 p. il. 4° (Federal Extension Service.) [Cooperative extension work, Agriculture Dept. and State land grant universities co-operating.] * Paper, 10c.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- Picture stories. † A 1.100:(nos.)
- 16555 222. Training the trainers, 12 nations represented in workshop on nutrition and kitchen improvement. Oct. 1969. [4] p. il. 4° (Federal Extension Service.)
- 16556 223. Electricity for remote Alaskan villages. Oct. 1969. [2] p. il. 4° (Rural Electrification Administration.)
- 16557 Rice price support and marketing incentive program for Liberia, report; by Kennard O. Stephens and Herschel B. Ellis. July 1969. [2] leaves+38 p. 4° [Prepared in cooperation with Agency for International Development.] †
- L.C. card 77-604447 A 1.2: R 36/3
- Statistical bulletin.
- 16558 440. Wood used in manufacturing industries, 1965; by Thomas G. Gill and Robert B. Phelps. July 1969. vi+101 p. il. 4° (Division of Forest Economics and Marketing Research, Forest Service.) [Supersedes Statistical bulletin 353, Wood used in manufacturing industries.] * Paper, \$1.00. ● Item 15
- L.C. card 70-604410 A 1.34: 440

**AIR FORCE DEPARTMENT, Defense Dept.
Washington, DC 20330**

- 16559 Aerospace sciences review, no. 69-2. Oct. 1969. 21 p. 4° (AWS recurring publication 105-2.) [Prepared for Air Weather Service by USAF Environmental Technical Applications Center.] † D 301.42/2: 69-2
- Air Force Human Resources Laboratory; [Technical reports] AFHRL-TR (series). (Personnel Research Division, Air Force Systems Command, Lackland Air Force Base, Tex.) † D 301.45/27: (nos.)
- 16560 68-113. Officer effectiveness report as performance measure, research review, by Glory Sturiale, Errata. [1969.] [1] p.
- 16561 68-124. Abstracts of personnel research reports: 8, 1954-68; compiled by Esther Barlow. Dec. 1968. v+160+[2] p. 4° ([Projects 6755 7717, 7719, 7734.] [Issued with cardboard dividers.]
- Air Force manual AFM (series).
- 16562 72-5. See Defense Department, Defense Supply Agency manual DSAM 4130.1.
- 16563 91-2. See, Army Department, Technical manual 5-609.
- Air Force pamphlet AFP (series).
- 16564 190-39. Aerospace speechmaking guide [with additional reading list]. 1st edition. Nov. 1969. cover title, iii+27 p. 4° (Office of Information, Internal Information Division.) † ● Item 421-A D 301.35: 190-39
- 16565 216-23. See, below Armed Forces Information Service, Pocket guide to Middle East.
- 16566 Air Force special report to youth. [1969.] [2]+16+[2] p. il. 4° (Office of Information.) * Paper, 20c. ● Item 424 D 301.2: Y 8/969
- Air Weather Service manual AWSM (series).
- 16567 105-124. Weather: Use of Skew T, Log P diagram in analysis and forecasting [with list of references]. July 15, 1969. cover title, [148] p. il. 4° [Issued with perforations. Supersedes AWSM 105-124, Mar. 15, 1961.] † D 301.27: 105-124
- Environmental Technical Applications Center: Technical note.
- 16568 69-7. Selected bibliography on climate of Central American countries; by Vincent J. Creasi. Sept. 1969. cover title, vii+27 p. il. 4° †
- L.C. card 73-604446 D 301.40/2: 69-7
- 16569 Of flight and bold men. [1969.] [28] p. il. oblong 16° † ● Item 424
- D 301.2: F 64/969
- School of Aerospace Medicine: Aeromedical reviews. (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) †
- D 301.26/13-4: (nos.)
- 16570 3-69. Oral prophylaxis pellet, stable stannous fluoride preparation [with list of references; by] Vincent A. Segreto, Albert C. Jerman, [and] John E. Devlyn. July 1969. [1]+6 p. il. (Dental Sciences Division.)
- 16571 4-69. Pure-tone air conduction audiogram; [by] Vernon C. Bragg. July 1969. [1]+15 p. il.

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

School of Aerospace Medicine: Technical report SAM-TR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex) ‡ D 301.26/13-6: (nos.)

- 16572 69-12. Monograms correlating dose of MMH with blood levels with list of references; by] Edwin B. Smith [and] Dale A. Clark. Sept. 1969. cover title, iii+6+[2] p. il. 4° ([Project 7753: task 775307.1])
- 16573 69-27. Parotide fluid cortisol and cortisone [with list of references; by] Fred H. Katz [and] Ira L. Shannon. May 1969. cover title, iii+18+[2] p. il. 4° ([U.S. Air Force contracts 41(609)-2786, and 41(609)-C008, task 775512.])
- 16574 69-40. Differential effects of light on photosynthesis and nitrogen metabolism in chlorella pyrenoidosa [with list of references; by] Howell D. Cobbs, Richard H. Hall, Walter J. Costello. July 1969. cover title, iii+9+[2] p. il. 4° ([Task 793001, contract AF 41(609)-3004.])
- 16575 69-47. Microbiologic evaluation of frozen foil pack meal components [with list of references; by] Raymond A. Madson. Aug. 1969. cover title, iv+8+[2] p. 4° ([Project 7753, task 775309.])
- 16576 You, the Air Force officer. [1969.] cover title, 11 p. il. oblong 48° † ● Item 424 D 301.2: Of 2

APPRENTICESHIP AND TRAINING BUREAU, Labor Dept. Washington, DC 20210

- 16577 National policy of apprenticeship for machinist (automatic screw-machines), guide for screw machine products industry. 1969. v+18 p. [Developed by National Screw Machine Products Association.] * Paper, 20c. ● Item 748 L 23.2: M 18/5

ARMED FORCES INFORMATION SERVICE, Defense Dept. Washington, DC 20301

DOD pamphlet.

- 16578 PG-10A. See below, Pocket guide to Middle East.
- 16579 Pocket guide to Middle East. [1969.] iv+116 p. il. 24° ([Armed Forces Information Office DoD PG-10A; Army Dept., DA Pam 360-417; Navy Dept., NAVPERS 92437B; Air Force Dept., AFP 216-23; Marine Corps NAVMC 1149.]) [Another illustration in color on p. 4 of cover. Supersedes DoD PG-10/DA Pam 20-192/NAVPERS 92437-A/NAVMC 1149, Feb. 1962. One map is colored.] * Paper, \$1.00. ● Item 314 & 312-A D 2.8: M 58/969

ARMS CONTROL AND DISARMAMENT AGENCY Washington, DC 20451

- 16580 Documents on disarmament, 1968 [with bibliography; compiled and annotated by Robert W. Lambert, assisted by Ruth Ihara and Jean Mayer.] [Sept. 1969.] xvii+893 p. il. ([Publication 52.]) * Paper, \$3.75. ● Item 865-B AC 1.11/2: 968
L.C. card 60-64408

ARMY DEPARTMENT, Defense Dept. Washington, DC 20310

AMC pamphlets. (Army Materiel Command.) ‡ ● Item 322-A D 101.22/3: (nos.)

- 16581 310-1. Military publications: Index of publications and blank forms. Change 3. Oct. 1, 1969. [1969.] 29+[1] p. 4° [Issued with performances.]
- 16582 715-3. Procurement: Proposal evaluation and source selection. Aug. 1969. cover title, [205] p. il. 4° [Issued with perforation. Supersedes AMC-P 715-3, Mar. 31, 1966, including Change 1, Nov. 29, 1968.] L.C. card 70-604393

Army Electronics Command, Fort Monmouth, N.J.: Research and development technical report ECOM (series).

- 16583 95844. Computer/display interface study, final report [Jan. 1, 1966-Dec. 31, 1968; with list of references]. Apr. 1969. [212] p. il. 4° (MIPR 66-95844, AMC-5621-11-484-02-07.) [Prepared by Computer Systems Section, Information Processing Technology Division, Center for Computer Sciences and Technology, National Bureau of Standards, Washington, D.C.] ‡ D 111.9/4: 95844

*For Sale by Superintendent of Documents
‡Distribution Made by Issuing Office
†Official Use. Not Available

DECEMBER 1969

- Field manual FM (series). ‡ ● Item 324 D 101.20:(nos.)
- 16584 1-100. Army aviation utilization [with list of references]. Aug. 1969, cover title, [67] p. 4° [Issued with perforations. Supersedes FM 1-100, Nov. 21, 1966, including Change 1, Aug. 10, 1967.]
- 16585 1-105. Army aviation techniques and procedures [with list of references]. June 1969, cover title, [344] p. il. 5 pl. 1 tab. 16° [Issued in looseleaf form. One plate is colored.]
- 16586 Keep a good thing going. [1969.] [6] p. il. narrow 8° ([RPI 647, May 1969.]) ‡ ● Item 325 D 101.2: T 34
- 16587 Military intelligence. [1969.] cover title, [44] p. il. 4° [Some illustrations are colored.] ‡ ● Item 325 D 101.2: In 8/4
- Pamphlets. ‡ ● Item 327 (Rev. 1969.) D 101.22:(nos.)
- 16588 40-5. Training in first aid and emergency medical treatment [with list of references and training aids]. July 1969, cover title, 11 p. 4° [Corrected copy. Issued with perforations. Supersedes DA Pam 350-9, Dec. 9, 1964.]
- 16589 55-3. Transportation and travel: MTMTS port handling billing rates. Sept. 1969, cover title, i+31 p. 4° [Issued with perforations. Supersedes DA Pam 55-3, July 24, 1968.]
- 16590 360-82. Personalize for success. Nov. 1969, cover title, 16 p. il.
- 16591 360-239. Troop topics: Army heritage. June 16, 1969, cover title, [16] p. il. 4°
- 16592 360-417. See, above, Armed Forces Information Service, Pocket guide to Middle East.
- 16593 600-9. Planning and evaluation of personnel management programs, bibliographic survey. Sept. 1969, cover title, ix+73 p. 4° L.C. card 78-604336
- 16594 608-2. Your personal affairs handbook. Aug. 1969, cover title, iv+102 p. 4° [Issued with perforations. Supersedes DA Pam 608-2, July 11, 1966.] L.C. card 78-604423
- 16595 608-10. Helpful hints for personnel ordered to U.S. Army, Japan. [Aug. 22, 1969.] cover title, 46 p. small 4° [Supersedes DA pamphlet 608-10, Feb. 14, 1967, including all changes.]
- 16596 608-13. Helpful hints for personnel ordered to U.S. Army, Southern European Task Force (Italy). [Aug. 22, 1969.] cover title, i+33 p. small 4° [Supersedes DA pamphlet 608-13, May 8, 1967.]
- 16597 715-50-69. Procurement legal service. Oct. 7, 1969. 8 p. 4° [Issued with perforations.]
- Technical manual TM (series). ‡ ● Item 329
- 16598 5-609. Military custodial services manual [with list of references]. [Sept. 25, 1969.] cover title, vii+103 p. il. 4° ([Navy Dept.] NAVFAC MO-125; [Air Force Dept.] AFM 91-2.) [Issued in looseleaf form. Supersedes AFM 85-10 and TM 5-609, Oct. 1, 1957, and NAVFAC MO-125, interim edition, May 1967.] D 101.11: 5-609
- 16599 5-820-4. [Drainage and erosion control]: Drainage for areas other than airfields. Aug. 14, 1964, Change 2, Oct. 10, 1969. [11]+11 p. 4° [Issued in looseleaf form. Formerly designated Corps of Engineers manual EM 1010-345-284.] D 103.6/3: 1110-345-284/ch.2
- 16600 5-826-4. Evaluation of Army airfield pavements: Army airfield-heliport pavement reports. Dec. 1969, cover title, [27] p. il. 4° [Issued with perforations. Reprint of formerly designated Corps of Engineers manual EM 1110-3-764, Dec. 15, 1959. Redesignated Army Dept. Technical manual TM 5-826-4 by DA Cir 310-28, Mar. 17, 1965.] D 101.11: 5-826-4
- 16601 8-215. Nuclear handbook for medical service personnel [with list of references]. Apr. 1969, cover title, 93 p. il. 4° [Two illustrations are colored.] L.C. card 72-604218 D 101.11: 8-215
- USAAVLABS technical report. (Army Aviation Material Laboratories, Fort Eustis, Va.)
- 16602 69-50. Exploratory study of nature of helicopter rotor blade boundary layers [with list of literature cited]: by H. R. Veloff [and others]. July 1969, cover title, [11]+xi+90+ [2] p. il. 4° (Contract DAAJ02-67-C-0001, Ohio State University, Research Foundation, Columbus, Ohio.) [Erratum sheet was issued also] ‡ D 117.8/2: 69-50

ATOMIC ENERGY COMMISSION Washington, DC 20545

AEC research and development reports.

Y 3.At 7: 22/(letters-nos.)

- 16603 AEC-tr-7024. Radiobiology, v. 9, no. 1, 1969 [articles, with bibliographies]. [Aug. 1969.] cover title, [1]+a-c+220 p. il. 4° (Division of Technical Information.) [Translation of publication of Academy of Sciences, USSR.] Φ Paper. \$3.00.

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 5

GOVERNMENT PUBLICATIONS

AEC research and development reports—Continued

- 16604 AEC-tr-7025. Radiobiology, v. 9, no. 2, 1969 [articles, with bibliographies]. [Sept. 1969.] cover title, [1]+a-c+214 p. ll. 4° (Division of Technical Information.) [Translation of publication of Academy of Sciences, USSR.] Φ Paper, \$3.00.
- 16605 AEC-tr-7055. Studies of electron heating mechanism during electron beam interactions with plasma [with bibliography]; by A. N. Karkhov. [July 1969.] cover title, 31 p. ll. 4° (Division of Technical Information.) [Translated from Report 1AE-1630, Akademiya Nauk SSSR, Moscow, Institut Atomnoi Energii, 1968.] Φ Paper, \$3.00.
- 16606 AEC-tr-7056. Superhigh-frequency generation of strongly ionized argon plasma [with bibliography]; by A. I. Anisimov [and others]. [July 1969.] cover title, 8 p. ll. 4° (Translation series.) [Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskii Institut, 1968.] Φ Paper, \$3.00.
- 16607 AEC-tr-7057. Planar plasma source [with bibliography]; by E. Ya. Gol'ts, V. B. Turundaevskii [and] A. Z. Khodzhaev. [July 1969.] cover title, 18 p. ll. 4° (Translation series.) [Akademiya Nauk SSSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 16608 AEC-tr-7058. Influence of electric field on motion of particles in helical fields [with list of references]; by A. P. Popryadukhin. [July 1969.] cover title, 25 p. ll. 4° (Translation series.) [Translation of Russian report, Akademiya Nauk SSSR, Moscow Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 16609 AEC-tr-7062. Theory of waves approaching exact solutions in nonlinear electrodynamics and optics [with bibliography]; by A. M. Eleonskii [and] V. P. Silin. [July 1969.] cover title, 35 p. 4° (Translation series.) [Translation of preprint 159.] Φ Paper, \$3.00.
- 16610 AEC-tr-7063. Quantum spin waves [with bibliography]; by P. S. Zyryanov, V. I. Okulov, [and] V. P. Silin. [July 1969.] cover title, 6 p. ll. 4° (Translation series.) [Akademiya Nauk SSSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 16611 AEC-tr-7067. Antennuator based on ferrite resonance switch [with list of references]; by L. E. Tsopp. [Aug. 1969.] cover title, 8 p. ll. 4° [Translation series; AEC file NP-17759.] [Akademiya Nauk SSSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 16612 AEC-tr-7068. Calorimetric measurement of superhigh-frequency power [with bibliography]; by L. E. Tsopp. [Aug. 1969.] cover title, 14 p. ll. 4° (Translation series; AEC file NP-17749; Division of Technical Information.) [Akademiya Nauk SSSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 16613 AEC-tr-7069. Linear wave transformation in inhomogeneous magnetoactive plasma [with bibliography]; by A. D. Piliya [and] V. I. Fedorov. [Aug. 1969.] cover title, 18 p. ll. 4° (Translation series.) [Translation of report FTI-144, Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskii Institut, 1968.] Φ Paper, \$3.00.
- 16614 AEC-tr-7070. Absorption of electromagnetic waves in strongly inhomogeneous plasma [with bibliography]; by A. D. Piliya [and] V. I. Fedorov. [Aug. 1969.] cover title, 14 p. ll. 4° (Translation series; Division of Technical Information.) [From report FTI-104, Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskii Institut, 1968.] Φ Paper, \$3.00.
- 16615 AEC-tr-7071. Hydrodynamic theory of stability of laminar flux of dense plasma [with bibliography]; by I. S. Baykov. [Aug. 1969.] cover title, 21 p. 4° (Translation series; AEC file NP-17760.) [Akademiya Nauk SSSR, Moscow, Institut Fiziki, 1968.] Φ Paper, \$3.00.
- 16616 AEC-tr-7072. Confinement of plasma in stellarators [with bibliography]. [Aug. 1969.] cover title, 11+54 p. ll. 4° (Translation series.) [Akademiya Nauk SSSR, Fizicheskii Institut imeni P. N. Lebedeva, Moscow, 1968.] Φ Paper, \$3.00.
- 16617 AEC-tr-7073. Anomalous absorption of cyclotron waves in confined plasma [with bibliography]; by L. S. Bogdankevich and A. A. Rukhadze. [Aug. 1969.] cover title, 20 p. ll. 4° (Translation series.) [Akademiya Nauk SSSR, Ordena Lenina Fizicheskii Institut imeni P. N. Lebedeva, Moscow, 1968.] Φ Paper, \$3.00.
- 16618 AEC-tr-7079. Electromagnetic properties of turbulent plasma [with bibliography]; by V. N. Tsytoich. [Aug. 1969.] cover title, 95 p. 4° (Translation series; AEC file NP-17705.) [Akademiya Nauk SSSR, Moscow, Institut Fizika, 1968.] Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

DECEMBER 1969

- 16619 CEX-65.11. Operation Henre: Energy and angular distribution of neutrons and gamma rays. Operation Henre [with list of references]; by J. H. Thorngate, D. R. Johnson, and P. T. Perdue. Aug. 1969. 75 p. il. 4° (Civil Effects Test Operations; [Health Physics Division, Oak Ridge National Laboratory, Oak Ridge, Tenn.]) Φ Paper, \$3.00.
- 16620 CEX-68.3. Nuclear weapons effects tests of blast type shelters, documentary compendium of test reports [with bibliography; compiled and edited by Christian Beek]. June 1969. cover title, vi+414 p. il. 4° (Civil effects study, Civil Effects Test Operations.) Φ Paper, \$3.00.
- 16621 GEAP-5678. 1000 MWe LMFB liquid metal fast breeder reactor follow-on study: General Electric task 2 report, Conceptual plant design, system descriptions, and costs for 1000 MWe sodium-cooled fast reactor [with list of references; compiled by W. R. Gee, Jr.] [Dec. 1968.] cover title x+298 p. il. 4° (Argonne National Laboratory; [contract 31-109-3S-1997].) Φ Paper, \$3.00.
- 16622 GEAP-5710. 1000 MWe LMFB liquid metal fast breeder reactor follow-on study: General Electric task 3 and 5 report, Methods system optimization, and safety studies for 1000 MWe sodium-cooled fast reactor [with lists of references]. [Feb. 1969.] cover title, [499] p. il. 4° (Argonne National Laboratory; [contract 31-109-3S-1997].) Φ Paper, \$3.00.
- 16623 IDO-22051. Behavior of xenon-133 gas after injection underground, molecular diffusion, materials balance, and barometric pressure effects [with list of references]; by J. B. Robertson. July 1969. v+37 p. il. 4° (Environmental and Sanitary Engineering Branch, Division of Reactor Development and Technology.) [Prepared in cooperation with Geological Survey, Water Resources Division, National Reactor Testing Station, Idaho Falls, Idaho. Geological Survey open-file report.] Φ Paper, \$3.00; microfiche, 65c.
- 16624 NYO-3S31-1. Cost-benefit analysis of radiation pasteurization of meat under centralized cutting conditions. Oct. 1968. viii+202 p. il. 4° (Daniel Yankelovich Incorporated, New York, N.Y.; [contract AT (30-1)-3S31.]) Φ Paper, \$3.00.
- 16625 ORO-669. Radiation pasteurization of Gulf shellfish, annual report, Jan. 1-Dec. 31, 1968; [prepared by Joseph A. Liuzzo and others]. Jan. 30, 1969. iv+25 p. 4° (Department of Food Science and Technology, Louisiana State University, Baton Rouge, La.; [contract AT-(40-1)-2951].) Φ Paper, \$3.00.
- 16626 PNE-953. Cabriole, preshot geophysical studies of Cabriole nuclear crater site [with list of references; by L. D. Ramsdott, R. T. Stearns, and G. L. Meyer]. Aug. 25, 1969. cover title, vi+29 p. il. 4° (Plowshare, civil industrial, and scientific uses for nuclear explosives.) [Prepared in cooperation with Lawrence Radiation Laboratory, University of California, Livermore, Calif.] Φ Paper, \$3.00.
- 16627 PNE-955. Cabriole, special cloud content studies [with list of references; by J. J. Cohen]. Sept. 19, 1969. cover title, [1]+19 p. il. 4° (Plowshare, civil industrial and scientific uses for nuclear explosives.) [Prepared in cooperation with Lawrence Radiation Laboratory, University of California, Livermore, Calif. p. 19 of text appears on p. 3 of cover.] Φ Paper \$3.00.
- 16628 TID-5001 (9th rev.). Subject headings used by USAEC Division of Technical Information; [edited by Sidney F. Lanier]. [Original edition July 1951], 9th revised edition Sept. 1969. [1969.] cover title, [6]+276 p. 4° Φ Paper, \$3.00. L.C. card 58-61232
- 16629 TID-25136. Development of some radioisotope procedures for measuring water movement in trees [with list of references cited]; prepared by Peyton W. Owston, James L. Smith, and Howard G. Halverson. Apr. 22, 1969. [5]+55 p. il. 4° (Division of Technical Information: Division of Isotopes Development: contract AT(49-11)2773.) Φ Paper, \$3.00.
- 16630 WASH-1130. Utility staffing for nuclear power [with bibliography and text references]. July 1969. cover title, vii+73 p. il. 4° (Division of Nuclear Education and Training.) * Paper, 75c. ● Item 1051-C
- 16631 WASH-1140. Safeguards systems analysis of nuclear fuel cycles [articles with bibliographies]. Oct. 1, 1969. cover title, [3]+312 p. il. 4° (Office of Safeguards and Materials Management.) * Paper, \$2.25. ● Item 1051-C
- 16632 Nuclear power, benefits and risks, remarks [with list of references]; by James T. Ramey, Commissioner, Atomic Energy Commission, at conference on nuclear power and the public, University of Minnesota, Minneapolis, Minn., Oct. 11, 1969. [Oct. 21, 1969.] [1]+21 leaves, 4° (S-34-69.) † Y 3.At 7: 34 R 14/24

GOVERNMENT PUBLICATIONS

16633 Planning for environmental protection in siting of nuclear and fossil powered plants, remarks [with list of references] by James T. Ramey, Commissioner, Atomic Energy Commission, before Federal Bar Association, Atomic Energy Law Committee, seminar on possible new issues in AEC licensing proceedings, antitrust and environmental effects, Washington, D.C. Oct. 15, 1969. Oct. 21, 1969. [1]+16 leaves. 4° (S-35-69.) †
Y 3.At 7: 34 R 14/25

16634 Uranium supply and demand, remarks by Rafford L. Faulkner, Director, Division of Raw Materials, U.S. Atomic Energy Commission, before Uranium Committee of American Mining Congress, San Francisco, Calif., Oct. 19, 1969. [1969.] 7 p. 6 pl. 4° (S-36-69.) † Y 3.At 7: 34 F 27/9

AVIATION MEDICINE OFFICE, Transportation Dept. Washington DC 20553

[Aviation medical reports]. AM (series). TD 4.210:(nos.)

16635 69-3. Pathology of trauma attributed to restraint systems in crash impacts [with list of references; by] Richard G. Snyder [and others]. Feb. 1969. [4]+29+[2] p. il. 4° Φ Paper, \$3.00.

16636 69-4. Experimental impact protection with advanced restraint systems, preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness [with list of references; by] Richard G. Snyder, Joseph W. Young, Clyde C. Snow. Feb. 1969. [4]+20+[2] il. 4° Φ Paper, \$3.00.

BONNEVILLE POWER ADMINISTRATION, Interior Dept. Portland, OR 97208

16637 Generation and sales statistics, fiscal year 1969. [Aug. 12, 1969.] 6 p. il. 4° ([Branch of Customer Service, Rates and Statistics.]) [Pages 4-6 issued as leaves.] †
L.C. card 54-61687 I 44.8: 969

BUSINESS AND DEFENSE SERVICES ADMINISTRATION, Commerce Dept., Washington, DC 20230

16638 Fifteen years of numerically controlled machine tools, 1954-68; [prepared by Robert J. Hunsberger and Rushia Owens]. [Oct. 1969.] 18 p. il. 4° * Paper, 30c. ● Item 215
L.C. card 75-604311 C 41.2: M 18/3/954-68

16639 Fluid power systems equipment, shipments and end use, 1968: [prepared by Joseph H. Broome]. Oct. 1969. [1]+iv+10 p. 4° * Paper, 25c. ● Item 215 C 41.2: F 67/968

16640 Information sources on marketing new products, selections from Marketing information guide. [1969.] [2]+24 p. narrow 8° † ● Item 215-E C 41.12: M 34/5

16641 Patterns of industrial growth: Shipments of electrical lighting fixtures, 1962-67. Oct. 1969. [2] p. f°, folded into 4° size. † Paper, 10c. C 41.90/5: L 62/962-67

16642 — Shipments of wiring devices and supplies, 1960-67. Aug. 1969. 5 p. 4° † Paper, 10c. C 41.90/5: W 74/960-67

16643 Pitchman's pitch to pitchmen, address by Jacob E. Katz, Director of Office of Marketing, Business and Defense Administration, Department of Commerce, prepared for delivery at National Paint Salesmen's Association Convention, Monticello, N.Y., Oct. 11, 1969. [1969.] 7 p. 4° † C 41.15: K 15/10

16644 Quarterly summary of future construction abroad (3d quarter 1969). [July 1969.] [2]+48 p. oblong 12° (International Liaison & Trade Opportunities Staff.) † ● Item 219-A C 41.30/5: 969/3

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

CENSUS BUREAU, Commerce Dept.
Suitland, MD 20233

1967 census of business: Selected services, area statistics BC67-SA (series). [Preprint from v. 8, Selected services, area statistics.]
C 3.202/4: 967-(nos.)

- 16645 8. Connecticut. [Oct. 1969.] iv+67 p. il. 4° * Paper, 70c. ● Item 132-A-8
- 16646 13. Hawaii. [Oct. 1969.] iv+35 p. il. 4° * Paper, 55c. ● Item 132-A-14
- 16647 19. Kentucky. [Oct. 1969.] iv+60 p. il. 4° * Paper, 65c. ● Item 132-A-20
- 16648 31. New Hampshire. [Oct. 1969.] iv+45 p. il. 4° * Paper, 55c. ● Item 132-A-32
- 16649 36. North Dakota. [Oct. 1969.] iv+37 p. il. 4° * Paper, 50c. ● Item 132-A-37
- 16650 41. Rhode Island. [Oct. 1969.] iv+44 p. il. 4° * Paper, 55c. ● Item 132-A-42
- 16651 49. Washington. [Oct. 1969.] iv+65+[1] p. il. 4° * Paper, 65c. ● Item 132-A-51
- 16652 51. Wisconsin. [Oct. 1969.] iv+76 p. il. 4° * Paper, 75c. ● Item 132-A-53
- Wholesale trade, area statistics BC67-WA (series). [Preprint from v. 6, Wholesale trade, area statistics.] C 3.202/3: 967/(nos.)
- 16653 7. Colorado. [Oct. 1969.] iii+30 p. il. 4° * Paper, 50c. ● Item 132-A-7
- 16654 25. Minnesota. [Oct. 1969.] iii+36 p. il. 4° * Paper, 50c. ● Item 132-A-26
- 16655 51. Wisconsin. [Oct. 1969.] iii+36 p. il. 4° * Paper, 50c. ● Item 132-A-55

Census use study report.

- 16656 6. Family health survey: [by John C. Deshaies]. [Sept. 1969.] [4]+41 p. 4° [Text on p. 2 and 3 of cover.] † Paper, 50c. C 3.244: 6

Construction reports: [Housing sales], C-25 (series).

- 16657 68-13. Characteristics of new one-family homes, 1968. [1969.] cover title, [51]+108 p. il. 4° [Prepared in cooperation with Housing and Urban Development Department. Issued with perforations. † Paper, \$1.00. ● Item 140-A (Rev.) C 3.215/9: C 25-68-13

1968 county business patterns 'CBP' (series). (Business Division) [Prepared with assistance of Social Security Administration.] ● Item 133-A
L.C. card 49-45747 C 3.204: (nos.)

- 16658 68-4. Arizona. [Oct. 1969.] cover title, ix+35 p. il. 4° * Paper, 55c.
- 16659 68-8. Connecticut. [Oct. 1969.] cover title, ix+52 p. il. 4° * Paper, 65c.
- 16660 68-28. Montana. [Oct. 1969.] cover title, ix+37 p. il. 4° * Paper, 55c.
- 16661 68-30. Nevada. [Oct. 1969.] cover title, ix+22 p. il. 4° * Paper, 45c.
- 16662 68-31. New Hampshire. [Oct. 1969.] cover title, ix+31 p. il. 4° * Paper, 55c.
- 16663 68-33. New Mexico. [Oct. 1969.] cover title, ix+36 p. il. 4° * Paper, 55c.

Current population reports: Series P-28, Special censuses. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year). \$2.50 additional for foreign mailing; single copy prices vary. ● Item 142-C C 3.186: P-28/(nos.)

NOTE.—Only the summaries for Series P-28 are included in the subscription. Census for individual cities and towns are sold by the Census Bureau at the prices indicated.

- 16664 1486. Special census of Rockland County, N.Y., May 2, 1969. Oct. 9, 1969. 24 p. il. 4° † Paper, 25c.
- 16665 1487. Special census of Islip town, N.Y., May 8, 1969. Oct. 10, 1969. 32 p. il. 4° † Paper, 25c.
- 16666 1488. Summary of special censuses conducted by Bureau of Census between Jan. 1-Dec. 31, 1968, with cumulative summary of special censuses taken since Apr. 1, 1960. Oct. 22, 1969. cover title, i+33 p. 4° * Paper, 40c.
- 16667 1489. Summary of special censuses conducted by Bureau of Census between Jan. 1 and Mar. 31, 1969. Nov. 5, 1969. 3 p. il. 4° * Paper, 10c.

Current population reports: Series P-60, Consumer income. * Paper, \$8.50 (including Series P-20, P-23, P-25, P-26, P-27, P-28 summaries, P-60, and P-65 for one year). \$2.50 additional for foreign mailing; single copy prices vary. ● Item 142-C C 3.186: P-60/(nos.)

- 16668 65. Household income in 1968 and selected social and economic characteristics of households; prepared by Marianne P. Witschy and Emmett F. Spiers. Oct. 31, 1969. 19 p. 4° * Paper, 20c.

Government finances, GF6S (series).

- 16669 6. Local government finances in selected metropolitan areas in 1967-68. [Oct. 1969.] iii+38 p. il. 4° ([Governments Division.]) * Paper, 50c. ● Item 146-E
L.C. card A 59-10097 C 3.191/2: 968/6

State and local government special studies.

- 16670 53. Governmental fiscal years in 1967. Sept. 1969. 10 p. 4° † Paper, 10c. ● Item 148-A C 3.115: 53

GOVERNMENT PUBLICATIONS

CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, DC 20201

- 16671 Eat well for you and your baby who is on the way. [1969.] 4 p. il. * Paper, 10c. ● Item 452 FS 17.202: B 11/5

CIVIL AERONAUTICS BOARD Washington, DC 20428

- 16672 Abstract of remarks prepared for delivery by Secor D. Browne, Chairman, Civil Aeronautics Board, at dedication of Eastern Air Lines' new terminal facility built by Massachusetts Port Authority, Logan International Airport, Boston, Mass., Nov. 5, 1969. [1969.] 4 p. 4° † C 31.215: B 81/5
- 16673 Abstracts of remarks prepared for delivery by Secor D. Browne, Chairman, Civil Aeronautics Board, before Airline Finance and Accounting Conference, San Juan, Puerto Rico, Nov. 3, 1969. [1969.] 4 p. 4° † C 31.215: B 81/4
- 16674 Career opportunities for attorneys with Civil Aeronautics Board. [1969.] cover title, 15 p. il. narrow 8° † ● Item 183 C 31.202: At 8/969
- 16675 Specially prepared spots, remarks by Whitney Gilliland, Vice Chairman, Civil Aeronautics Board, 23d Air Transport Management Institute, American University, Oct. 22, 1969. [1969.] [1]+13 p. 4° † C 31.215: G 41/13

CIVIL DEFENSE OFFICE (Army), Defense Dept. Washington, DC 20310

[Handbook] H (series).

- 16676 12-2. Above ground home fallout shelter. Sept. 1969. 8 p. il. 4° [Includes material list.] † ● Item 857-D-10 D 119.8/2: 12-2

Technical report TR (series).

- 16677 58. HUD aids for fallout shelter development. Sept. 1969. [1]+8+[1] p. il. [Prepared in cooperation with Housing and Urban Development Department.] † ● Item 320-B-2 D 119.9: 58

CIVIL SERVICE COMMISSION Washington, DC 20415

- 16678 Current Federal civil service announcement. AN-2279, issue 192, Nov.-Dec. 1969. [1969.] [2] p. large 4° folded into narrow 8° size. † ● Item 292 CS 1.28: 2279/192
- 16679 Discontinuance notice to announcement WA-7-11, correctional officer, grade GS-6. Nov. 3, 1969. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) † CS 1.26/4: 967/WA-7-11/notice
- 16680 Federal career opportunities for deputy U.S. marshal, GS-6, announcement WAM-930 (local). Nov. 4, 1969. 4 p. 4° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E St. NW., Washington, D.C. 20415.) [Suspended, Dec. 17, 1969.] † ● Item 292 CS 1.26/4: 969/WAM-930
- Federal personnel manual FPM supplement.
- 16681 512-1 Job grading system for trades and labor occupations; transmittal sheet 8. Sept. 1969. 9 p. [Transmits job grading standards for: Sheet metal mechanic, WG-3806; Boiler plant operator, WG-5402; Sewage disposal plant operator, WG-5408; Water treatment plant operator, WG-5409. Issued in looseleaf form.] * Paper, \$13.00 (transmittals for an indefinite period); \$5.00 additional for foreign mailing. ● Item 294 CS 1.41/4: 512-1/trans.8
- 16682 Federal workforce outlook, fiscal years 1969-1972; [prepared by Harry L. Clark and Dona R. Thurston.] July 1969. [2]+14 p. 4° (Bureau of Policies and Standards.) [Text on p. 2-3 of cover.] † ● Item 291-A L.C. card 65-60893 CS 1.72/2: 969-72

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

DECEMBER 1969

- 16683 Job grading standard for boiler plant operator, WG-5402. [1969.] cover title, 13 p. [From Federal personnel manual FPM supplement, 512-1, TS-8, Sept. 1969. Issued with perforations.] * Paper, 10c.
CS 1.41/4: 512-1/trans.8/WG-5402
- 16684 Job grading standard for sewage disposal plant operator, WG-5408. [1969.] cover title, 6 p. [From Federal personnel manual, FPM supplement 512-1, TS-8, Sept. 1969. Issued with perforations.] * Paper, 10c.
CS 1.41/4: 512-1/trans.8/WG-5408
- 16685 Job grading standard for sheet metal mechanic, WG-3806. [1969.] cover title, 7 p. [From Federal personnel manual, FPM supplement 512-1, TS-8, Sept. 1969. Issued with perforations.] * Paper, 10c.
CS 1.41/4: 512-1/trans.8/WG-3806
- 16686 Job grading standard for water treatment plant operator, WG-5409. [1969.] cover title, 7 p. [From Federal personnel manual, FPM supplement 512-1, TS-8, Sept. 1969. Issued with perforations.] * Paper, 10c.
CS 1.41/4: 512-1/trans.8/WG-5409
- 16687 Local and regional civil service announcements offering best job opportunities, AN 2280 [issue 140], Nov.-Dec. 1969. [1969.] [2] p. oblong f°, folded into narrow 8° size. † ● Item 292 CS 1.28: 2280/140
- Pamphlets. ● Item 299 CS 1.48: (nos.)
- 16688 73. Key people careers in education with your Federal Government. [Revised July 1969.] [1969.] cover title, [20] p. il. 12° ([Program Development Division Bureau of Recruiting and Examining.]) * Paper, 25c.
- 16689 74. Big pond, Federal jobs for engineers, physical scientists, mathematicians. [July 1969.] cover title, 15 p. il. 4° ([Federal Job Information Center.]) * Paper, 30c.
- 16690 BRE-16. Information about postmaster positions, June 1969. ii+23 p. narrow 8° (Bureau of recruiting and Examining.) †
- 16691 Professional careers in biological & agricultural sciences with Federal Government, announcement 421. Nov. 1969. [11] p. 4° [No. closing date.] † ● Item 292 CS 1.26: 969/421
- 16692 Secretarial techniques, student manual [with bibliography for secretaries]. [1969.] cover title, iv+[4] leaves+90 p. il. 4° (Bureau of Training, Communications and Office Skills Training Center.) † ● Item 296-B CS 1.7/4: Sc 2
- 16693 Stenographers, typists, GS-1 to GS-5, come to Washington, D.C., announcement WAO-901. Mar. 11, 1969. revised Oct. 1969. [1969.] 6 p. il. 4° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) [Applications continuously accepted.] † ● Item 292 CS 1.26/4: 969/WAO-901/rev.
- 16694 Technical assistant GS-4, agriculture, biology, data processing, engineering, medicine, science, and other technical fields, announcement 409. Sept. 1969. 6 p. 4° † ● Item 292 CS 1.26: 967/409/rev.
- 16695 [This entry number not used.]

COAST GUARD, Transportation Dept. Washington, DC 20591

- 16696 First scientific advisory meeting for National Data Buoy Systems, May 12-14, 1969 [proceedings]. July 11, 1969. cover title, vii+164 p. il. 4° (National Data Buoy Development Project.) ‡ ● Item 935-A
L.C. card 78-604431 TD 5.23: 969

GOVERNMENT PUBLICATIONS

Oceanographic report.

- 16697 25. Oceanographic observations in Kara and eastern Barents Seas [with bibliography : by] Andrew W. Garcia. [1969.] ix+99 p. il. 4° (CG 373 25; Coast Guard Oceanographic Unit.) † ● Item 940-B TD 5.18:25
L.C. card 73-604375

COMMERCE DEPARTMENT Washington, DC 20230

NOTE.—Requests to the Commerce Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 16698 Address by James T. Lynn, General Counsel, Department of Commerce, prepared for delivery at luncheon at Elyria County Club, Elyria, Ohio, for presentation of Presidential E. Award for Export Excellence to Nordson Corporation of Amherst, Ohio, Oct. 24, 1969. [1969.] 9 p. 4° †
C 1.18: L 99/5
- 16699 Address by Maurice H. Stans, Secretary of Commerce before American Institute of Certified Public Accountants, Los Angeles, Calif., Oct. 7, 1969. [1969.] [2]+17 p. 4° [Includes highlights.] † C 1.18: St 2/19
- 16700 Address by Maurice H. Stans, Secretary of Commerce before Business Council, Hot Springs, Va., Oct. 18, 1969. [1969.] 16 p. 4° †
C 1.18: St 2/20
- 16701 Address by Maurice H. Stans, Secretary of Commerce before 1970 Business Outlook Conference of Los Angeles area Chamber of Commerce, Los Angeles, Calif., Oct. 29, 1969. [1969.] [2]+16 p. 4° [Includes highlights.] †
C 1.18: St 2/21
- 16702 Address by Robert McLellan, Deputy Assistant Secretary of Commerce for Business Development, prepared for delivery at 21st annual Virginia Conference on World Trade, Richmond, Va. Oct. 23, 1969. [1969.] 9 p. 4° †
C 1.18: M 22/3
- 16703 Address by Rocco C. Siciliano, Under-Secretary of Commerce before Grand Council of Columbia Associations, New York City, Oct. 25, 1969. [1969.] 7 p. 4° †
C 1.18: Si 12/8
- 16704 Address by Rocco C. Siciliano, Under Secretary of Commerce, prepared for delivery before annual convention of American Association of Port Authorities, San Francisco, Calif., Oct. 28, 1969. [1969.] 9 p. 4° †
C 1.18: Si 12/6
- 16705 Address by Rocco C. Siciliano, Under-Secretary of Commerce, prepared for delivery before Council of Profit Sharing Industries, Washington, D.C., Oct. 24, 1969. [1969.] 9 p. 4° †
C 1.18: Si 12/7
- Overseas business reports OBR (series). [Issued irregularly.] * Paper, \$16.00 a yr., \$5.00 additional for foreign mailing; single copy, 15c. (1-3 yr. subs.). ● Item 231-B C 1.50: (nos.)
- 16706 69-48. Foreign trade regulations of Colombia; prepared by James Dyke, Oct. 1969. 10 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 67-46.]
- 16707 69-51. Basic data on economy of Sweden [with bibliography]; prepared by Grant Olson, Oct. 1969. 17 p. il. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 66-26.]
- 16708 69-54. Establishing business in Finland [with bibliography]; prepared by Harold A. McNitt, Oct. 1969. 14 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 16709 Social aspects of engineering education, address by Assistant Secretary of Commerce for Science and Technology, Myron Tribus, prepared for delivery before Electron Devices meeting of Institute of Electrical and Electronics Engineers, Washington, D.C., Oct. 30, 1969. [1969.] 10 p. 4° †
C 1.18: T 73/6
- 16710 Textiles, problem area for exports and imports, remarks by Stanley Nehmer, Deputy Assistant Secretary of Commerce for Resources, prepared for delivery at 7th annual meeting of Textile Distributors Association, New York, N.Y., Oct. 16, 1969. [1969.] 14 p. 4° †
C 1.18: N 31/13

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

COMMERCIAL FISHERIES BUREAU, Interior Dept.
Washington, DC 20240

C. F. S. (series).

- 16711 5002. New York landings. Marine district, 1968, annual summary. [Sept. 1969.] 12 p. il. 4° [Prepared in cooperation with New York Conservation Department, Bureau of Marine Fisheries, Ronkonkoma, N.Y.] †
● Item 610-A I 49.8/2: 5002

Circulars. † ● Item 609 I 49.4: (nos.)

- 16712 317. Identification of Pacific salmon and steelhead trout by scale characteristics [with list of literature cited]; by Kenneth H. Mosher, Aug. 1969. iii+17 p. il. 4°
L.C. card 71-604215
16713 324. Bureau of Commercial Fisheries Biological Laboratory, Oxford, Md. [Nov. 1969. [8] p. il. narrow 8°

Fishery marketing development series.

- 16714 14. Alaska, Washington, Oregon, seafood moods. [1969.] cover title, 30 p. il. ([National Marketing Services Office, Chicago, Ill.]) [Text on p. 2-3 of cover. Issued in cooperation with commercial fishing industry. Illustrations are colored.] * Paper, 60c. ● Item 611-F I 49.49/2: 14

Special scientific report: Fisheries (series).

- 16715 589. Return and behavior of adults of first filial generation of transplanted pink salmon, and survival of their progeny, Sashin Creek, Baranof Island, Alaska [with list of literature cited]; by Robert J. Ellis, Oct. 1969. iii+13 p. il. 4° † ● Item 614-B I 49.15/2: 589

CONGRESS

Congressional record, proceedings and debates of 90th Congress, 2d session, v. 114. [Permanent edition.] 1968. ● Item 993
L.C. card 12-36438 X.90/2: 114/pt. (nos.)

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break.

- 16716 pt. 23. Oct. 4-10, 1968 [1]+29577-30730 p. 4° * Cloth, \$6.00.
16717 pt. 24. Oct. 11-14, 1968. [1]+30731-32164 p. 4° * Cloth, \$6.75.

Congressional serial set

NOTE.—During each session of Congress the House and Senate documents and reports are accumulated into bound volumes comprising the Congressional serial set. No catalog entry is made for the volumes of the Serial set since the documents and reports contained therein have been previously listed in the Monthly catalog. The following bound volumes were sent to depository libraries during the period of this catalog:

House reports:

- 16718 nos. 1548-1695, with exceptions, 89th Congress, 2d session, House miscellaneous reports on public bills III [Serial 12713-3]. ● Item 1007-A
16719 nos. 951-1050, with exceptions, 90th Congress, 1st session, House miscellaneous reports on public bills VII [Serial 12753-7]. ● Item 1007-A

Senate document:

- 16720 no. 26, 91st Congress, 1st session, Prayers in Senate, 1965-68 [Serial 12844-3].
● Item 995-G

Senate reports:

- 16721 nos. 24-946, with exceptions, 90th Congress, 1st session, Senate special reports [Serial 12752-1]. ● Item 1007-A

Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 91st Congress. † House or Senate Document Rooms, Capitol.

- 16722 45. S. 83, act for relief of certain civilian employees and former civilian employees of Bureau of Reclamation. Approved Sept. 26, 1969. 1 p.
16723 46. S. 348, act for relief of Cheng-hual Li. Approved Sept. 26, 1969. 1 p.
16724 47. H.R. 4658, act for relief of Bernard L. Coulter. Approved Sept. 29, 1969. 1 p.
16725 48. S. 85, act for relief of Jagir Singh Randhawa. Approved Sept. 29, 1969. 1 p.
16726 49. S. 728, act for relief of Richard L. Schumaker, U.S. Army. Approved Sept. 29, 1969. 1 p.
16727 50. S. 330, act for relief of Konstantinos Nicholas Babaliaras. Approved Oct. 14, 1969. 1 p.
16728 51. H.R. 3165, act for relief of Martin H. Loeffler. Approved Oct. 17, 1969. 1 p.
16729 52. H.R. 3560, act for relief of Arie Rudolf Busch (also known as Harry Bush). Approved Oct. 17, 1969. 1 p.

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Private laws, 91st Congress—Continued

- 16730 53. S. 265, act for relief of John (Giovanni) Denaro. Approved Oct. 17, 1969. 1 p.
 16731 54. S. 620, act for relief of Richard Vigil. Approved Oct. 17, 1969. 1 p.
 16732 55. S. 110, act for relief of Nickolas George Polizos. Approved Oct. 17, 1969. 1 p.

Public laws, 91st Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402 at a subscription price of \$20.00 per session, \$5.00 additional for foreign mailing; single copies vary in price.

- 16733 67. H.R. 7206, act to adjust salaries of Vice President of United States and certain officers of Congress. Approved Sept. 15, 1969. 1 p. * Paper, 5c.
 16731 68. H.R. 12677, act to authorize Commissioner of District of Columbia to lease to Jewish Historical Society of Greater Washington former synagogue of Adas Israel Congregation and real property of District of Columbia for purpose of establishing Jewish Historical Museum. Approved Sept. 16, 1969. 1 p. * Paper, 5c.
 16735 69. H.R. 11235, act to amend Older Americans act of 1965, and for other purposes. [Approved Sept. 17, 1969.] 8 p. * Paper, 5c.
 16736 70. H.J. Res. 250, joint resolution authorizing President of United States to proclaim Sept. 17, 1969, General von Steuben Memorial Day for observance and commemoration of birth of General Friedrich Wilhelm von Steuben. Approved Sept. 17, 1969. 1 p. * Paper, 5c.
 16737 71. S.J. Res. 149, joint resolution to extend for 3 months authority to limit rates of interest or dividends payable on time and savings deposits and accounts. Approved Sept. 22, 1969. 1 p. * Paper, 5c.
 16738 72. H.J. Res. 614, joint resolution authorizing the President to proclaim week of Sept. 28–Oct. 4, 1969, as National Adult-Youth Communications Week. Approved Sept. 24, 1969. 1 p. * Paper, 5c.
 16739 73. S. 1686, act relating to age limits in connection with appointments to United States Park Police. Approved Sept. 26, 1969. 1 p. * Paper, 5c.
 16740 74. H.R. 11582, act making appropriations for Treasury and Post Office Departments, Executive Office of the President, and certain independent agencies, for fiscal year ending June 30, 1970 and for other purposes. [Approved Sept. 29, 1969.] 8 p. * Paper, 5c.
 16741 75. S. 1766, act to provide for disposition of judgment recovered by Confederate Salish and Kootenai tribes of Flathead Reservation, in par. 11, docket numbered 50233, United States Court of Claims, and for other purposes. Approved Sept. 29, 1969. 1 p. * Paper, 5c.
 16742 76. H.J. Res. 775, joint resolution to authorize the President to award in name of Congress, Congressional Space Medals of Honor to those astronauts whose particular efforts and contributions to welfare of Nation and of mankind have been exceptionally meritorious. Approved Sept. 29, 1969. 1 p. * Paper, 5c.
 16743 77. S. 1888, act to change composition of Commission for Extension of United States Capitol. Approved Sept. 29, 1969. 1 p. * Paper, 5c.
 16744 78. S.J. Res. 152, joint resolution to provide for temporary extension of rural housing programs and Federal Housing Administration insurance authority, and to extend period during which Secretary of Housing and Urban Development may establish maximum interest rates on insured loans. Approved Sept. 30, 1969. 1 p. * Paper, 5c.

ATOMIC ENERGY JOINT COMMITTEE Washington, DC 20515

- 16745 AEC omnibus legislation, 1969, hearing, 91st Congress, 1st session, Sept. 12, 1969. 1969. iv+96 p. † ● Item 999
 L.C. card 73-604158 Y 4.At 7/2: At 7/18/969

ECONOMIC JOINT COMMITTEE Washington, DC 20510

- 16746 Economics and financing of higher education in United States, compendium of papers [compiled by Robert Haveman]. 1969. vi+683 p. il. * Paper, \$3.00. ● Item 1000
 L.C. card 78-604352 Y 4.Ec 7: Ed 8/4

HOUSE OF REPRESENTATIVES Washington, DC 20515

House documents

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

House documents, 91st Congress.

- 16747 161. Higher education and community service, message from President of United States transmitting 3d annual report of National Advisory Council on Extension and Confining Education; Sept. 23, 1969. 1969. [10]+28 p. † ● Item 996
 L.C. card 68-67200

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16748 181. Second annual report of Federal Judicial Center, communication from Director, Federal Judicial Center transmitting 2d annual report of the Center; Oct. 20, 1969. 1969. iii + 9 p. † ● Item 996

House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on private bills, 91st Congress. † House Document Room, Capitol. ● Item 1008-B

- 16749 502. Mr. and Mrs. Wong Yui. Report from Committee on Judiciary to accompany S. 92. Sept. 23, 1969. 6 p.
 16750 503. John (Giovanni) Denaro. Report from Committee on Judiciary to accompany S. 265. Sept. 23, 1969. 13 p.
 16751 504. Dr. Konstantinos Nikolaos Babaliaros. Report from Committee on Judiciary to accompany S. 330. Sept. 23, 1969. 6 p.
 16752 505. Nickolas George Polizos. Report from Committee on Judiciary to accompany S. 1110. Sept. 23, 1969. 8 p.
 16753 506. Dug Foo Wong. Report from Committee on Judiciary to accompany S. 2019. Sept. 23, 1969. 5 p.
 16754 507. Opposing granting of permanent residence in United States of certain aliens. Report from Committee on Judiciary to accompany H. Res. 540. Sept. 23, 1969. 4 p.
 16755 508. Sa Cha Bae. Report from Committee on Judiciary to accompany H.R. 4560. Sept. 23, 1969. 5 p.
 16756 509. Rogelio Tabhan. Report from Committee on Judiciary to accompany H.R. 5106. Sept. 23, 1969. 7 p.
 16757 510. Kong Wan Nor. Report from Committee on Judiciary to accompany H.R. 5963. Sept. 23, 1969. 9 p. il.
 16758 511. Lidia Mendola. Report from Committee on Judiciary to accompany H.R. 10156. Sept. 23, 1969. 6 p.
 16759 519. Panagiotis, Georgia, and Constantina Malliaras. Report from Committee on Judiciary to accompany H.R. 6600. Sept. 25, 1969. 5 p.
 16760 526. Clayton County Journal and Wilber Harris. Report from Committee on Judiciary to accompany H.R. 1703. Sept. 29, 1969. 4 p.
 16761 527. Timothy L. Ancrum (also known as Timmie Rogers). Report from Committee on Judiciary to accompany H.R. 3590. Sept. 29, 1969. 4 p.
 16762 528. Elgie L. Tabor. Report from Committee on Judiciary to accompany H.R. 9591. Sept. 29, 1969. 6 p.
 16763 529. J. Burdette Shaft and John S. and Betty Gingas. Report from Committee on Judiciary to accompany H.R. 9906. Sept. 29, 1969. 4 p.
 16764 530. Jimmie Kazu Ujemura and others. Report from Committee on Judiciary to accompany H.R. 13183. Sept. 29, 1969. 4 p.
 16765 531. Mr. and Mrs. Joseph E. Begnoche. Report from Committee on Judiciary to accompany H.R. 13218. Sept. 29, 1969. 4 p.
 16766 532. John S. Attinello. Report from Committee on Judiciary to accompany H. Res. 533. Sept. 29, 1969. 7 p.
 16767 533. Sanborn Lumber Co., Inc. Report from Committee on Judiciary to accompany H.R. 6402. Sept. 29, 1969. 4 p.
 16768 547. Providing for conveyance of certain mineral rights in and under lands in Pike County, Ga. Report from Committee on Interior and Insular Affairs to accompany H.R. 1706. Oct. 1, 1969. 4 p.

House reports on public bills, 91st Congress. † House Document Room, Capitol. ● Item 1008-A

- 16769 525. American Revolution Bicentennial Commission. Report from Committee on Judiciary to accompany S. 2462. Sept. 29, 1969. 3 p.
 16770 535. Defining term child for purposes of title 38, United States Code. Report from Committee on Veterans' Affairs to accompany H.R. 10106. Sept. 30, 1969. 7 p.
 16771 538. Increasing rates of dependency and indemnity compensation. Report from Committee on Veterans' Affairs to accompany H.R. 13576. Sept. 30, 1969. 13 p.
 16772 541. Consideration of H.R. 14000. Report from Committee on Rules to accompany H. Res. 561. Sept. 30, 1969. 1 p.
 16773 542. Transfer of peanut acreage allotments. Report from Committee on Agriculture to accompany H.R. 14030. Sept. 30, 1969. 6 p.
 16774 543. Amending Federal seed act. Report from Committee on Agriculture to accompany S. 1836. Sept. 30, 1969. 5 p.
 16775 544. License fees and exemptions under Perishable agricultural commodities act. Report from Committee on Agriculture to accompany H.R. 9857. Sept. 30, 1969. 12 p.
 16776 545. Amendment of 2d liberty bond act to increase maximum interest rate permitted on U.S. savings bonds. Report from Committee on Ways and Means to accompany H.R. 14020. Oct. 1, 1969. 5 p.
 16777 546. Amending act fixing boundary of Everglades National Park, Fla., and authorizing acquisition of land therein, in order to authorize additional amount for acquisition of certain lands for such park. Report from Committee on Interior and Insular Affairs to accompany S. 2564. Oct. 1, 1969. 4 p.

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

House reports on public bills, 91st Congress—Continued

- 16778 549. Coinage act amendment. Report together with additional and separate views from Committee on Banking and Currency to accompany H.R. 14127, Oct. 4, 1969, 11 p.
- 16779 550. Rural Electrification Administration's bulletin inhibiting political activities by its borrowers and their employees, 9th report by Committee on Government Operations; Oct. 7, 1969, 1969, v+31 p.
- 16780 551. Amending act of Dec. 11, 1969 (77 Stat. 349). Report from Committee on Interior and Insular Affairs to accompany H.R. 3247, Oct. 7, 1969, 4 p.
- 16781 552. Placing in trust status certain lands of Standing Rock Sioux Indian Reservation in North Dakota and South Dakota. Report from Committee on Interior & Insular Affairs to accompany H.R. 3334, Oct. 7, 1969, 4 p.
- 16782 553. Declaring that certain federally owned land is held by United States in trust for Cheyenne River Sioux Tribe of Cheyenne River Indian Reservation. Report from Committee on Interior and Insular Affairs to accompany H.R. 4226, Oct. 7, 1969, 5 p.
- 16783 554. Declaring that certain federally owned lands are held by United States in trust for Indians of Pueblo of Laguna. Report from Committee on Interior and Insular Affairs to accompany H.R. 9424, Oct. 7, 1969, 7 p.
- 16784 555. Declaring that United States shall hold certain land in trust for Three Affiliated Tribes of Fort Berthold Reservation, N. Dak. Report from Committee on Interior and Insular Affairs to accompany S. 775, Oct. 7, 1969, 3 p.
- 16785 556. United States-Mexico Commission for Border Development and Friendship. Report from Committee on Foreign Affairs to accompany H.J. Res. 894, Oct. 9, 1969, 6 p.
- 16786 557. Consideration of H.R. 14127. Report from Committee on Rules to accompany H. Res. 574, Oct. 9, 1969, 1 p.
- 16787 559. Consideration of H.R. 13000. Report from Committee on Rules to accompany H. Res. 576, Oct. 9, 1969, 1 p.
- 16788 560. Emergency insured student loan act of 1969. Conference report to accompany H.R. 13194, Oct. 13, 1969, 7 p.
- 16789 563. Federal coal mine health and safety act of 1969. Report together with minority, supplemental, and separate views from Committee on Education and Labor to accompany H.R. 13950, Oct. 13, 1969, 100 p.
L.C. card 70-604437
- 16790 564. Peace Corps act. Conference report to accompany H.R. 11039, Oct. 14, 1969, 3 p.
- 16791 567. Consideration of H.R. 4244. Report from Committee on Rules to accompany H. Res. 579, Oct. 14, 1969, 1 p.
- 16792 568. Consideration of H.R. 13827. Report from Committee on Rules to accompany H. Res. 580, Oct. 14, 1969, 1 p.
- 16793 570. Appropriations for fiscal year 1970. Conference report to accompany H.R. 12781, Oct. 14, 1969, 11 p.
- 16794 574. Authorizing retired officers of U.S. Navy to Command U.S.S. Constitution (IX-21). Report from Committee on Armed Services to accompany H.R. 8662, Oct. 16, 1969, 4 p.
- 16795 578. Consideration of H.R. 13950. Report from Committee on Rules to accompany H. Res. 584, Oct. 16, 1969, 1 p.
- 16796 583. Favoring active participation by Federal agencies in 9th International Congress on High Speed Photography. Report from Committee on Foreign Affairs to accompany H. Con. Res. 178, Oct. 21, 1969, 2 p.
- 16797 584. Great Plains program extension. Conference report to accompany H.R. 10595, Oct. 21, 1969, 5 p. [Corrected print.]
- 16798 586. Consideration of H.R. 6778. Report from Committee on Rules to accompany H. Res. 587, Oct. 21, 1969, 1 p.
- 16799 594. Census and statistical systems of certain countries in Europe. [Report from] Committee on Post Office and Civil Service, 91st Congress, 1st session; Oct. 23, 1969, 1969, iv+8 p. il.
- 16800 595. Continuing appropriations, 1970. Report from Committee on Appropriations to accompany H. J. Res. 966, Oct. 23, 1969, 9 p.
- 16801 596. Revise laws relating to offenses against hotels, motels, etc. Report from Committee on District of Columbia to accompany H.R. 10335, Oct. 24, 1969, 6 p.
- 16802 597. Amending survivor annuity provisions of District of Columbia judges retirement act of 1964. Report from Committee on District of Columbia to accompany S. 2056, Oct. 24, 1969, 3 p.
- 16803 598. Revise laws relating to liability of hotels to their guests. Report from Committee on District of Columbia to accompany H.R. 10336, Oct. 24, 1969, 6 p.
- 16804 600. National Science Foundation act amendments of 1969. Conference report to accompany S. 1857, Oct. 27, 1969, 6 p.
- 16805 611. Foreign assistance act of 1969. Report of Committee on Foreign Affairs, together with minority, supplemental and additional views, on H.R. 14580; Nov. 6, 1969, 1969, vi+194 p. il.

Agriculture Committee, House *Washington, DC 20515*

[Committee hearings] serial, 91st Congress. † ● Item 1010

- 16806 Q. General farm program and food stamp program, hearings, 91st Congress, 1st session, July 15—Oct. 10, 1969, 1969, pt. 1, v+692 p. il.
L.C. card 72-604155 Y 4:Ag S/1 : F 22/59/pt.1

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16807 R. Improve rice inspection, hearing before Subcommittee on Oilseeds and Rice, 91st Congress, 1st session, on H.R. 8739 and H.R. 11523, Sept. 30, 1969. 1969. iii+50 p. Y 4.Ag 8/1: R 36/11
L.C. card 70-604149
- 16808 S. Milk research and development program, hearing before Subcommittee on Domestic Marketing and Consumer Relations, 91st Congress, 1st session, on H.R. 10710, H.R. 10824, and H.R. 11726, Aug. 8, 1969. 1969. iii+30 p. Y 4.Ag 8/1: M 59/19
L.C. card 75-604161

Appropriations Committee, House
Washington, DC 20515

Department of Defense appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session.

- 16809 pt. 4. Research, development, test, and evaluation, Department of Air Force, Department of Navy, 1969. ii+942+xiv p. il. † ● Item 1011
L.C. card 61-60926 Y 4.Ap 6/1: D 36/5/970/pt.4

Department of Transportations and related agencies appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session. †

- Item 1011
L.C. card 71-604290 Y 4.Ap 6/1: T 68/4/970/pt. (nos.)
- 16810 pt. 1. Civil Aeronautics Board, Federal Highway Administration, Federal Railroad Administration, Interstate Commerce Commission, National Transportation Safety Board, Coast Guard, Washington Metropolitan Area Transit Authority, 1969. ii+1532+xv p.
pt. 2. Federal Aviation Administration, Office of Secretary, St. Lawrence Seaway Development Corporation, Secretary of Transportations, Urban Mass Transportation Administration, testimony of Members of Congress and other individuals and organizations, 1969. ii+982+xi p. il.

- 16811 District of Columbia appropriations, 1970, hearings before subcommittee, 91st Congress, 1st session. † ● Item 1011

L.C. card 60-60520 Y 4.Ap 6/1: D 63/970/pt.1

pt. 1 General operating expenses (except executive office), parks and recreation, public safety, 1969. ii-1327+x p. il.

- 16812 Foreign assistance and related agencies appropriations for 1970, hearings before subcommittee, 91st Congress, 1st session. † ● Item 1011

pt. 2. Economic assistance, 1969. ii+1-458b+459-1860+xix p.
L.C. card 79-604008 Y 4.Ap 6/1: F 76/3/970/pt.2

Armed Services Committee, House
Washington, DC 20515

[Papers], 91st Congress. † ● Item 1012 Y 4.Ar 5/2 a: 969-70/(nos.)

NOTE.—These papers consist largely of hearings. They are paged continuously for binding at the end of session of Congress under the title "Hearing before Committee on Armed Services of the House of Representatives on sundry legislation affecting the naval and military establishments." Title page, contents, and index are issued for each volume.

- 16813 19. Hearings on H.R. 14001 and H.R. 14015 before Special Subcommittee on Draft, 91st Congress, 1st session, Sept. 30–Oct. 14, 1969. 1969. cover title, 4483-4754+ci p. il. * Paper, \$1.50.
L.C. card 78-604151

- 16814 21. Full committee consideration of H.R. 6790, to authorize increase in number of Marine Corps Reserve officers who may serve in active status in combined grades of brigadier and major general; H.R. 8018, to amend sec. 1072(2) of title 10, United States Code, to include foster child within definition of dependent; and H.R. 8020, to amend title 37, United States Code, to provide entitlement to round trip transportation to home port for member of naval service on permanent duty aboard ship over-hauling away from home port whose dependents are residing at home port. Apr. 29, 1969. p. 4793-98. †

- 16815 22. Subcommittee no. 3 hearings on H.R. 13756, to amend titles 10, 32, and 37, United States Code, with respect to accountability and responsibility for U.S. property, and for other purposes. Oct. 14, 1969. p. 4799-4823. †

Education and Labor Committee, House
Washington, DC 20515

- 16816 Establishment of Commission on Afro-American History and Culture, hearing before Select Subcommittee on Education, 91st Congress, 1st session, on H.R. 3295, June 4, 1969. 1969. iii+17 p. † ● Item 1015
L.C. card 79-604162 Y 4.Ed 8/1: Af 8

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 17

GOVERNMENT PUBLICATIONS

- 16817 Joint industry promotion funds and joint labor-management boards, hearing before Special Subcommittee on Labor, 91st Congress, 1st session, on H.R. 860 and H.R. 4842, Oct. 6, 1969. 1969. iv+78 p. † ● Item 1015
L.C. card 73-604288 Y 4.Ed 8/1: In 2/3

Foreign Affairs Committee, House Washington, DC 20515

- 16818 United States-Mexico Commission for Border Development and Friendship, hearing before Subcommittee on Inter-American Affairs, 91st Congress, 1st session, on H.J. Res. 894, Sept. 5, 1969. 1969. iv+69 p. † ● Item 1017
L.C. card 75-604007 Y 4.F 76/1: Un 35/3

Government Operations Committee, House Washington, DC 20515

- 16819 Joint funding simplification, hearing before subcommittee, 91st Congress, 1st session, on H.R. 6654, Mar. 24, 1969. 1969. iii+78 p. il. † ● Item 1016
L.C. card 70-604168 Y 4.G 74/7: F 96/3/969

Interstate and Foreign Commerce Committee, House Washington, DC 20515

- [Committee hearings] serial, 91st Congress.
16820 25. Health services for migratory and seasonal agricultural workers, hearing before Subcommittee on Public Health and Welfare, 91st Congress, 1st session, on H.R. 13432, Sept. 29, 1969. 1969. iii+39 p. † ● Item 1019
L.C. card 72-604163 Y 4.In 8/4: 91-25

Judiciary Committee, House Washington, DC 20515

- 16821 Summary of activities of Committee on Judiciary, 90th Congress; Nov. 1968. 1968. ii+27 p. (Committee print, 90th Congress.) †
L.C. card 76-604357 Y 4.J 89/1: Ac 8/968-2

Public Works Committee, House Washington, DC 20515

- [Committee publication] 91st Congress.
16822 12. To authorize adequate White House police force, hearing before Subcommittee on Public Buildings and Grounds, 91st Congress, 1st session, on H.R. 11526, July 24, 1969. 1969. iii+37 p. † ● Item 1024
L.C. card 72-604293 Y 4.P 96/11: 91-12

Science and Astronautics Committee, House Washington, DC 20515

- [Paper], 91st Congress.
16823 7. Metric system study authorization, hearing, 91st Congress, 1st session, on S. 1287, May 27, 1969. 1969. iii+16 p. † ● Item 1025-A
L.C. card 79-603898 Y 4.Sci 2: 91-1/7
16824 Study of technology assessment, report of Committee on Public Engineering Policy, National Academy of Engineering [with bibliography]. July 1969. xiii+208 p. il. ([Committee print.]) [Errata, 1 p., issued also.]
* Paper, \$1.25.
L.C. card 74-604430 Y 4.Sci 2: T 22/2

Veteran's Affairs Committee, House Washington, DC 20515

- 16825 Benefits to veterans residing overseas; Aug. 19, 1969. 1969. xii+163 p. (House committee print, 91st Congress, 1st session.) †
L.C. card 72-603620 Y 4.V 64/3: B 43/14

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Ways and Means Committee, House
Washington, DC 20515

- 16826 President's proposals for welfare reform and social security amendments 1969, including draft of bills, summaries, and other material transmitted by Department of Health, Education, and Welfare; Oct. 1969. 1969. iii +106 p. (Committee print, 91st Congress, 1st session.) * Paper, 45c. L.C. card 79-604418 Y 4.W 36: W 45
- 16827 Report to Committee on Ways and Means, House of Representatives, on monitoring of special review of aid to families with dependent children in New York City conducted by Department of Health, Education, and Welfare and New York State Department of Social Services, by Comptroller General of United States, transmitted on Oct. 17, 1969. 1969. ii+53 p. (Committee print, 91st Congress, 1st session.) * Paper, 30c. Y 4.W 36: M 74/2
- 16828 Unemployment compensation, hearings, 91st Congress, 1st session, on H.R. 12625, Oct. 1-7, 1969. 1969. xi+688 p. il. 1 pl. † ● Item 1028 L.C. card 76-604156 Y 4.W 36: Un 2/7/969

INTERNAL REVENUE TAXATION JOINT COMMITTEE
Washington, DC 20515

- 16829 Cross-references within Internal revenue code of 1954, as of Jan. 1, 1969. 1969. iii+[1]+20 p. † L.C. card 62-1243 Y 4.In 8/11: In 8/8/969
- 16830 Effective date provisions of H.R. 13270, Tax reform act of 1969 (as passed by House of Representatives), prepared by staff of Joint Committee on Internal Revenue Taxation; Sept. 11, 1969. 1969. v+20 p. (Committee print.) † L.C. card 74-603618 Y 4.In 8/11: T 19/17
- 16831 Public hearings, Tax reform act of 1969, staff summary of testimony of witnesses on Thursday, Sept. 11, 1969 (topics: General, single persons). [1969.] 13 p. † L.C. card 76-603621 Y 4.In 8/11: T 19/16

REDUCTION OF FEDERAL EXPENDITURES JOINT COMMITTEE
Washington DC 20510

- 16832 1970 budget scorekeeping report (staff report no. 5) pursuant to sec. 601 of Revenue act of 1941 showing status of 1970 fiscal year Federal budget, as of Sept. 25, 1969, with summary presentation. 1969. iii+18 p. 4° (Joint committee print, 91st Congress, 1st session.) † Y 4.R 24/4: B/85/2/970/no.5
- 16833 1970 budget scorekeeping report (staff report no. 6), pursuant to sec. 601 of Revenue act of 1941 showing status of 1970 fiscal year Federal budget, as of Oct. 8, 1969, with summary presentation. 1969. iii+20 p. 4° (Joint committee print, 91st Congress, 1st session.) † Y 4.R 24/4: B/85/2/970/no.6

SENATE
Washington DC 20510

Senate documents

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 91st Congress.

- 16834 35. Canada-United States Interparliamentary Group, report to Senate on 12th meeting, held at Ottawa, Canada, June 3-8, 1969, by Frank Church, Chairman of Senate delegation, Sept. 26, 1969. 1969. v+7 p. † ● Item 996 L.C. card 59-64053

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

Page 19

GOVERNMENT PUBLICATIONS

Senate executive reports

Senate executive reports, 91st Congress, 1st session. Y 1.91/1: (nos.)

- 16835 8. Convention on conduct of fishing operations in North Atlantic. Report from Committee on Foreign Relations to accompany Ex. D, 91st Cong., 1st sess. Oct. 21, 1969. 20 p. ‡
16836 9. Vienna convention on consular relations. Report from Committee on Foreign Relations to accompany Ex. E., 91st Cong., 1st sess. Oct. 21, 1969. 24 p. ‡

Senate Reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 91st Congress. ‡ Senate Document Room, Capitol. ● Item 1008-B

- 16837 415. Quitclaims to quiet title, Arizona. Report from Committee on Agriculture and Forestry to accompany S. 55. Sept. 18, 1969. 4 p.
16838 437. Barbara Rogerson Marmor. Report from Committee on Judiciary to accompany S. 533. Oct. 2, 1969. 6 p.
16839 438. Dr. George Alexander Karadimos. Report from Committee on Judiciary to accompany S. 2096. Oct. 2, 1969. 4 p.
16840 439. Dr. In Eae Yoon. Report from Committee on Judiciary to accompany S. 2231. Oct. 2, 1969. 7 p.
16841 440. Dr. Silvio Mejia Millan. Report from Committee on Judiciary to accompany S. 2443. Oct. 2, 1969. 5 p.
16842 441. Martin H. Loeffler. Report from Committee on Judiciary to accompany H.R. 3135. Oct. 2, 1969. 2 p.
16843 442. Arie Rudolf Busch (also known as Harry Bush). Report from Committee on Judiciary to accompany H.R. 3560. Oct. 2, 1969. 8 p.
16844 443. Dr. Wagnih Mohamed Abdel Bari. Report from Committee on Judiciary to accompany S. 1797. Oct. 2, 1969. 4 p.
16845 444. Cora S. Villanuel. Report from Committee on Judiciary to accompany S. 1775. Oct. 2, 1969. 7 p.
16846 445. Mrs. Marjorie Zueck. Report from Committee on Judiciary to accompany S. 476. Oct. 2, 1969. 4 p.

Senate reports on public bills, 91st Congress. ‡ Senate Document Room, Capitol. ● Item 1008-A

- 16847 436. Air Force Reserve general officer promotions. Report of Committee on Armed Services made by its Subcommittee on Reserve General Officer promotions: Sept. 23, 1969. 1969. iii+21 p. 4°
16848 446. Day of Bread and Harvest Festival. Report from Committee on Judiciary to accompany H.J. Res. 851. Oct. 2, 1969. 2 p.
16849 447. Copyright protection in certain cases. Report from Committee on Judiciary to accompany S.J. Res. 143. Oct. 2, 1969. 4 p.
16850 448. Providing for holding of court in Prince Georges County in District of Maryland. Report from Committee on Judiciary to accompany S. 981. Oct. 2, 1969. 3 p.
16851 449. Providing for retirement of U.S. judges after 20 years of service. Report from Committee on Judiciary to accompany S. 1508. Oct. 2, 1969. 4 p.
16852 450. Increasing maximum rate of per diem allowance for employees of the Government traveling on official business, and for other purposes. Report from Committee on Government Operations to accompany H.R. 337. Oct. 3, 1969. 9 p.
16853 451. Eisenhower dollar. Report from Committee on Banking and Currency to accompany S.J. Res. 158. Oct. 8, 1969. 3 p.
16854 452. National Industrial Hygiene Week. Report from Committee on Judiciary to accompany S.J. Res. 150. Oct. 9, 1969. 2 p.
16855 454. Library of Congress James Madison Memorial Building. Report from Committee on Public Works to accompany S. 2910. Oct. 14, 1969. 8 p. [Corrected print.]
16856 455. Equalization of retirement benefits for commissioned officers of Public Health Service. Report from Committee on Labor and Public Welfare to accompany S. 2452. Oct. 14, 1969. 7 p.
16857 456. Authorizing printing as House document of House hearings on science and strategies for national security in the 1970's. Report from Committee on Rules and Administration to accompany H. Con. Res. 338. Oct. 15, 1969. 1 p.
16858 457. Providing for printing of copies of eulogies on Dwight David Eisenhower. Report from Committee on Rules and Administration to accompany H. Con. Res. 368. Oct. 15, 1969. 2 p.
16859 460. Authorizing printing as Senate document of 1st report of Secretary of Health, Education, and Welfare entitled. Cost of clean air. Report from Committee on Rules and Administration to accompany S. Res. 267. Oct. 15, 1969. 2 p.
16860 462. Printing as Senate document 70th annual report of Daughters of American Revolution. Report from Committee on Rules and Administration to accompany S. Res. 273. Oct. 15, 1969. 1 p.

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

DECEMBER 1969

- 16861 473. Authorizing printing of additional copies of Enactment of law (S. doc. 35, 90th Cong.). Report from Committee on Rules and Administration to accompany S. Res. 202, Oct. 15, 1969. 1 p.
- 16862 479. Legislative branch appropriation bill, 1970. Report from Committee on Appropriations to accompany H.R. 13763, Oct. 16, 1969. 33 p.
- 16863 480. Medical libraries and health communications assistance amendments of 1969. Report from Committee on Labor and Public Welfare to accompany H.R. 11702, Oct. 16, 1969. 24 p.
- 16864 481. Medical benefits for older veterans. Report from Committee on Labor and Public Welfare to accompany H.R. 693, Oct. 17, 1969. 16 p.
- 16865 482. Nursing home care for service-connected veterans. Report from Committee on Labor and Public Welfare to accompany H.R. 2768, Oct. 17, 1969. 6 p.
- 16866 483. Outpatient care for certain service-connected veterans. Report from Committee on Labor and Public Welfare to accompany H.R. 3130, Oct. 17, 1969. 5 p.
- 16867 484. Care of veterans in State homes. Report from Committee on Labor and Public Welfare to accompany H.R. 9334, Oct. 17, 1969. 13 p.
- 16868 485. Sharing program of and employment of certain professional personnel in Department of Medicine and Surgery, Veterans' Administration. Report from Committee on Labor and Public Welfare to accompany H.R. 9634, Oct. 17, 1969. 12 p.
- 16869 487. Veterans education and training assistance amendments act of 1969. Report from Committee on Labor and Public Welfare to accompany H.R. 11959. 128 p.
- 16870 490. License fees and exemptions under Perishable agricultural commodities act. Report from Committee on Agriculture and Forestry to accompany H.R. 9857, Oct. 22, 1969. 9 p.
- 16871 491. Extension of marketing order authority to apples produced in Colorado, Utah, New Mexico, Illinois, and Ohio. Report from Committee on Agriculture and Forestry to accompany S. 1455, Oct. 22, 1969. 3 p.
- 16872 492. Referring land title bill, S. 202, to Chief Commissioner of Court of Claims. Report from Committee on Interior and Insular Affairs to accompany H. Res. 277, Oct. 22, 1969. 7 p.
- 16873 493. To authorize removal of Francis Asbury statute by Secretary of Interior. Report from Committee on Interior and Insular Affairs to accompany S. 1968, Oct. 22, 1969. 2 p.
- 16874 494. Authorizing construction of entrance road at Great Smokey Mountains National Park in North Carolina. Report from Committee on Interior and Insular Affairs to accompany H.R. 11609, Oct. 22, 1969. 5 p.
- 16875 495. Promoting economic development of Trust Territory of Pacific Islands. Report from Committee on Interior and Insular Affairs to accompany S. 232, Oct. 22, 1969. 7 p.
- 16876 499. Public ownership of lands in Federal reclamation projects. Report from Committee on Interior and Insular Affairs to accompany S. 2062, Oct. 27, 1969. 6 p.

Agriculture and Forestry Committee, Senate Washington, DC 20510

- 16877 School lunch and child nutrition programs, hearings, 91st Congress, 1st session, on S. 2152, S. 2548, S. 2595, H.R. 515, and H.R. 11651, Sept. 29-Oct. 1, 1969, 1969. iv+269 p. il. † ● Item 1032
L.C. card 74-604169 Y 4.Ag 8/2: Sch 6/6

Appropriations Committee, Senate Washington, DC 20510

- 16878 Department of State, Justice, and Commerce, the judiciary, and related agencies appropriations for fiscal year 1970, hearings before subcommittee, 91st Congress, 1st session, on H.R. 12964. 1969. ii+975+ xv+ p. il. † ● Item 1033
L.C. card 70-604287 Y 4.Ap 6/2: St 2/970

Commerce Committee, Senate Washington, DC 20510

[Committee hearings] serial, 91st Congress. † ● Item 1041

Y 4.C 73/2: 91-(nos.)

- 16879 20. Gas pipeline safety oversight, hearing before Subcommittee on Surface Transportation, 91st Congress, 1st session, Department of Transportation progress in implementing Natural gas safety act of 1968, July 9, 1969. 1969. ili+55 p.
L.C. card 77-604159
- 16880 23. Nominations, 1969, hearings, 91st Congress, 1st session, on nominations of Dean Burch to be Chairman, Federal Communications Commission, Robert Wells to be Member of Federal Communications Commission, Oct. 15 and 27, 1969. 1969. iv+73 p.
L.C. card 79-604170

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

[Committee hearings] serial, 91st Congress—Continued

- 16881 24. Control, regulation, and management of fish and wildlife, hearing, 91st Congress, on S. 1232 and S. 1401, Apr. 3, 1969. 1969. iv+52 p.
L.C. card 75-604291

District of Columbia Committee, Senate Washington, DC 20510

- 16882 Water supply problems of National Capital region, hearing, 91st Congress, 1st session, July 24, 1969. 1969. iv+287 p. il. 1 pl. † ● Item 1036
L.C. card 74-604150 Y 4.D 63/2 : W 29/4

Finance Committee, Senate Washington, DC 20510

- 16883 Tax reform act of 1969, compilation of decisions reached in Executive session; Oct. 31, 1969. 1969. ix+85 p. (Committee print, 91st Congress, 1st session.) * Paper, 40c.
L.C. card 70-604315 Y 4.F 49 : T 19/29

Foreign Relations Committee, Senate Washington, DC 20510

- 16884 Underground weapons testing, hearing, 91st Congress, 1st session, on S.J. Res. 155, Sept. 29, 1969. 1969. iv+131 p. † ● Item 1039
L.C. card 70-604157 Y 4.F 76/2 : W 37

Government Operations Committee, Senate Washington, DC 20510

- 16885 International negotiation, exchanges of scholars with Soviet Union, advantages and dilemmas, memorandum prepared [by Robert F. Byrnes] at request of Subcommittee on National Security and International Operations (pursuant to S. Res. 24, 91st Cong.). 1969. iii+19 p. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 70-604350 Y 4.G 74/6 : So 8/4
- 16886 Reorganization plan no. 1 of 1969 (ICC), hearing before Subcommittee on Executive Reorganization, 91st Congress, 1st session, Sept. 26, 1969. 1969. iii+135 p. † ● Item 1037.
L.C. card 71-604160 Y 4.G 74/6 : R 29/969/no.1

Interior and Insular Affairs Committee, Senate Washington, DC 20510

- Alaska native land claims, hearings, 91st Congress, 1st session, on S. 1830.
16887 pt. 2. Aug. 7 and 8, 1969. 1969. v+187-570 p. il. 2 maps. † ● Item 1040
L.C. card 77-602347 Y 4.In 8/13 : Al.1/21/969/pt.2

Judiciary Committee, Senate Washington, DC 20510

- Extent of subversion in campus disorders, hearings before Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws, 91st Congress, 1st session.
- 16888 pt. 2. Testimony of Max Phillip Friedman, Aug. 12, 1969. 1969. iii+S9-190 p.
* Paper, 45c. ● Item 1042
L.C. card 79-603540 Y 4.J S9/2 : C 15/pt.2
- 16889 Incorporating College Benefit System of America, hearings before Subcommittee on Federal Charters, Holidays, and Celebrations, 91st Congress, 1st session, on S. 1290, July 17, 18, 1969. 1969. vi+162 p. † ● Item 1042
L.C. card 77-604289 Y 4.J S9/2 : C 68

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Labor and Public Welfare Committee, Senate
Washington, DC 20510

- 16890 Comprehensive narcotic addiction and drug abuse care and control act of 1969, hearings before Special Subcommittee on Alcoholism and Narcotics, 91st Congress, 1st session, on S. 2608 [and] S. 1816, and related bills, Sept. 18 and 19, 1969. 1969. iv+409 p. il. † ● Item 1043
L.C. card 79-604284 Y 4.L 11/2: N 16/2
- Elementary and secondary education amendments of 1969, hearings before Subcommittee on Education, 91st Congress, 1st session, on S. 2218 [and] H.R. 514.
- 16891 pt. 2. June 11-July 18, 1969. 1969. x+673-1298 p. † ● Item 1043
L.C. card 70-604003 Y 4.L 11/2: E1 2/2/969/pt.2
- 16892 Impact of alcoholism, hearings before Special Subcommittee on Alcoholism and Narcotics, 91st Congress, 1st session, on examination of impact of alcoholism, July 23-25, 1969. 1969. v+427 p. il. † ● Item 1043
L.C. card 79-604154 Y 4.L 11/2: A11
- 16893 Nomination, hearing, 91st Congress, 1st session, on Nancy Hanks, of New York, to be Chairman of National Council on the Arts, Oct. 1, 1969. 1969. ii+33 p. † ● Item 1043
L.C. card 76-604278 Y 4.L 11/2: N 72/5/969-16
- 16894 Systems technology applied to social and community problems [with list of selected references]; prepared for Subcommittee on Employment, Manpower, and Poverty; June 1969. 1969. xiii+473 p. il. 2 pl. (Committee print, 91st Congress, 1st session.) ‡
L.C. card 74-603764 Y 4.L 11/2: T 22/2

Nutrition and Human Needs, Select Committee on, Senate
Washington, DC 20510

NOTE.—The Select Committee on Nutrition and Human Needs was established as a select committee of the Senate by S. Res. 281 of the 90th Congress, 2d session, which was considered, amended, and agreed to July 30, 1968.

Nutrition and human needs, hearings, 90th Congress, 2d session, and 91st Congress, 1st session.

- 16895 pt. 13A. Nutrition and private industry, July 15-18, 1969. 1969. v+3887-4244 p. il. * Paper, \$1.50. ● Item 1009
L.C. card 76-600776 Y 4.N 95: N 95/pt.13 A
- 16896 Poverty, malnutrition, and Federal food assistance programs, statistical summary, includes preliminary analysis of administration welfare proposals; Sept. 1969. 1969. v+56 p. il. (Committee print 91st Congress, 1st session.) ‡
L.C. card 78-603619 Y 4.N 95: P 86

Post Office and Civil Service Committee, Senate
Washington, DC 20510

- 16897 Title 5, United States Code, Government organization and employees, June 30, 1969. 1969. ii+[320] p. (Committee print, 91st Congress, 1st session.) [The last 2 pages are left blank for notes.] ‡
L.C. card 73-603745 Y 4.P 84/10: Or 3/2

Public Works Committee, Senate
Washington, DC 20510

[Committee hearings] serial, 91st Congress.

- 16898 18. Proposed leased and Government-constructed public buildings, hearing before Subcommittee on Public Buildings and Grounds, 91st Congress, 1st session, on consideration of pending public building prospectuses for leased and Government-constructed projects, Sept. 4, 1969. 1969. iv+142 p. il. † ● Item 1045
L.C. card 71-603991 Y 4.P 96/10: 91-18

‡For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Small Business, Select Committee on, Senate Washington, DC 20510

- 16899 Role of giant corporations, hearings before Subcommittee on Monopoly, 91st Congress, 1st session, on role of giant corporations in American and world economies. ● Item 1049
L.C. card 76-604286 Y 4.Sm 1/2: C 81/pt. (nos.)
pt. 1. Automobile industry, 1969, July 9-11, 1969. 1969. xiv+1-556 p. ll.
* Paper, \$2.50.
pt. 1A. Appendixes, automobile industry, 1969, July 9-11, 1969. 1969. xiv+557-1040 p. ll. * Paper, \$1.75.

CONSUMER AND MARKETING SERVICE, Agriculture Dept. Washington, DC 20250

- 16900 Manual of meat inspection procedures: Change 10. May 29, 1969. [23] p. 4° (Consumer Protection Programs.) * Paper, \$9.25 (including basic manual and supplementary material for indefinite period); \$3.25 additional for foreign mailing. ● Item 24-1' A 88.6/4: M 46/968/ch.10
16901 — Change 11. Jan. 13, 1969. [5] p. 4° (Consumer Protection Programs.) * Paper, \$9.25 (including basic manual and supplementary material for indefinite period); \$3.25 additional for foreign mailing. ● Item 24-1' A 88.6/4: M 46/968/ch.11
16902 — Change 12. June 27, 1969. [22] p. 4° (Consumer Protection Programs.) * Paper, \$9.25 (including basic manual and supplementary material for indefinite period); \$3.25 additional for foreign mailing. ● Item 24-1' A 88.6/4: M 46/968/ch.12
PMG (series).
16903 7. 1970 egg marketing guide. [Oct. 1969.] 11 p. 4° † ● Item 18-D A 88.26/5: 7

COPYRIGHT OFFICE, Library of Congress Washington, DC 20540

- Catalog of copyright entries, 3d series, v. 22. * Paper, \$50.00 a yr. (including semiannual issues for pts. 1-13); \$12.50 additional for foreign mailing.
16904 pt. 7-11A. Works of art, reproductions of works of art; scientific and technical drawings; photographic works, prints and pictorial illustrations, no. 1; Jan.-June 1968. 1969. ix+171 p. 4° ● Item 798
L.C. card 6-35347
NOTE.—Parts 7-11A also sold separately on subscription. * Paper, \$5.00 a yr. \$1.25 additional for foreign mailings; single copy, \$2.50. LC 3.6/5: v.22/pt.7-11 A/no.1
Circular.
16905 1. General information on copyright. [Oct. 1969.] cover title, 11 p. † ● Item S02-A LC 3.4/2: 1/2

CUSTOMS BUREAU, Treasury Dept. Washington, DC 20226

- 16906 Customs highlights for Government personnel (civilian and military). [1969.] 12 p. ll. narrow 8° ([Office of Information and Publications.]) * Paper, \$5.00 per 100; single copy 10c. ● Item 950 T 17.2: G 74

DEFENSE DEPARTMENT Washington, DC 20301

Commanders digest, Index.

- 16907 3. v. 6, nos. 1-26 (Apr. 5-Sept. 27, 1969). Sept. 27, 1969. [7] p. 4° (Armed Forces Press Service.) * Paper, 5c ● Item 312-B D 2.15/2-2:3
Defense Supply Agency handbook DSAH (series). ● Item 314-A D 7.6/7: (nos.)
16908 5025.2. DSA field establishment directory, July 1969, cover title, v+29 p. 4° ([Air Force Dept.] AFR 67-11.) [Issued in looseleaf form. Supersedes DSAH 5025.2, Jan. 1969.] * Paper, 40c.

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

DECEMBER 1969

- 16909 8200.1. What is observation? as used within Defense Supply Agency Contract Administration Services procurement quality assurance program. Oct. 1969, cover title, iv+36 p. il. 4° [Supersedes unnumbered pamphlet, What is observation, Dec. 31, 1968.] * Paper, \$1.00.
 Defense Supply Agency manual DSAM (series) ‡ ● Item 314-A
 D 7.6/8: (nos.)
- 16910 4130.1. Provisioning and other preprocurement screening manual. Mar. 1969, cover title, [75] p. il. 4° ([Army Dept.] AR 708-8; [Navy Dept.] NAVSUP PUB 5006; [Air Force Dept.] AFM 72-5; [Marine Corps] MCO P4423.17A; DASA circular 12-8.) [Issued in looseleaf form. Supersedes DSAM 4130.1, AR 708-8, NAVSUP PUB 5006, AFM 72-5, MCO P4423.17, June 1, 1967.]
- 16911 4185.1. DSA authorized data list manual. Oct. 1969, cover title, iii+70 p. 4° [Supersedes DSAM 4185.1, Mar. 1965, and Changes 1 and 2.]
 DSA-DLSC handbook. (Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.)
- 16912 4160.1. Defense utilization and marketing handbook, supp. 17, Nov. 1969, [24] p. 4° [Issued in looseleaf form.] ‡ ● Item 314-A
 D 7.6/10: 4160.1/supp.17
- 16913 Federal item identification guides: Caps, radiator and tank. Oct. 17, 1969, cover title, [39] p. il. 4° (FIIG A083A; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 50c. ● Item 314-A
 D 7.6/4: C 17/2/1969-2
- 16914 — Gaskets, packings, and seals. Mar. 1, 1968, Change 4, Aug. 8, 1969, [16] p. il. 4° (FIIG A032 change 4; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 15c. ● Item 314-A
 D 7.6/4: G 21/ch.4
- 16915 — Headset, electrical. Aug. 22, 1969, cover title, [44] p. il. 4° (FIIG A068; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 55c. ● Item 314-A
 D 7.6/4: H 34
- 16916 — Hose, pipe, and tube fittings, quick disconnect and self-sealing [Feb. 2, 1968] Change 1; Aug. 1, 1969, [1969.] [26] p. il. 4° (FIIG A209; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 25c. ● Item 314-A
 D 7.6/4: H 79/2/ch.1
- 16917 — Resistors, fixed and adjustable [May 1, 1967]. Change 1; Aug. 22, 1969, [1969.] [47] p. il. 4° (FIIG A001; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 45c. ● Item 314-A
 D 7.6/4: R 31/ch.1
- 16918 — Resistors, variable. Nov. 22, 1968, Change 1, Aug. 22, 1969, [40] p. il. 4° (FIIG A022 change 1; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 35c. ● Item 314-A
 D 7.6/4: R 31/2/ch.1
- 16919 — Screening and fencing, mesh. Aug. 22, 1969, cover title, [53] p. il. 4° (FIIG A088; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] * Paper, 65c. ● Item 314-A
 D 7.6/4: Ser 2
- 16920 — Valves, general purpose, and drain cocks. Dec. 27, 1968, Change 2, Oct. 31, 1969, [20] p. il. 4° (FIIG A046 change 2; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] * Paper, 20c. ● Item 314-A
 D 7.6/4: V 24/ch.2
- 16921 Ideas for managers, digest of actions for increasing efficiency and economy in management of defense activities [with bibliographies]. [1969.] ix +160 p. il. (Directorate for Cost Reduction and Management Improvement Programs, Office of Assistant Secretary of Defense (Installations and Logistics).) * Paper, \$1.00. ● Item 314-A
 L.C. card 70-604342
 D 7.2: M 31
- 16922 Materials handling standard time data, Change 3, Oct. 1, 1969, [1969.] [18] p. 4° (DoD 5010.15.1-M; Defense Supply Agency.) [Issued in looseleaf form.] * Paper, 20c. ● Item 314-A
 D 7.6/4: M 41/ch.3

GOVERNMENT PUBLICATIONS

- Military standard MIL-STD (series). [Issued with perforations.] ‡
 ● Item 314-J D 7.10:(nos.)
- 16923 25A. Ship structural symbols for use on ship drawings: Aug. 15, 1969. [1969.] iii+15 p. il. 4° [Supersedes MIL-STD-25, Jan. 12, 1966.]
- 16924 147B. Palletized and containerized unit loads 40" x 48" pallets, skids, runners, or pallet-type base, Change notice 1. July 15, 1969. [12] p. 4°
- 16925 177A. Rubber products, terms for visible defects of Aug. 14, 1969. iv+17 p. 4° (FSC 9320.) [Supersedes MIL-STD-177, Mar. 7, 1955.]
- 16926 454B. Standard general requirements for electronic equipment, Notice 1. May 29, 1969. [44] p. 4° (FSC MISC.)
- 16927 499 (USAF). System engineering management, July 17, 1969. [3]+iii+25 p. 4° (FSC MISC.)
- 16928 649B. Aluminum and magnesium products preparation for shipment and storage, Notice 1, Aug. 6, 1969. [33] p. il. 4°
- 16929 1322 (Navy). Palletizing domestic unit loads of weapon components, Aug. 14, 1969. [312] p. il. 4° (FSC 8140.) [Supersedes WIK-53, Mar. 3, 1965.]
- 16930 1348. Knobs, control, selection of, July 30, 1969. v+40 p. il. 4° (FSC 5355.)
- 16931 Military standard transportation and movement procedures, MILSTAMP [joint regulation, Change 10], Nov. 1, 1969. [145] p. 4° (DoD 4500.31-R, Aug. 1, 1966, as amended, Defense Supply Agency.) [Incorporates changes developed by agreement among Military Departments, Coast Guard, and General Services Administration, in coordination with Defense Supply Agency.] ‡ ● Item 309 D 1.6: M 59/ch.10
- 16932 MILSCAP, military standard contract administration procedures, Change 9; Aug. 1969. [1969.] [9] p. 4° (DoD 4105.63-M; Office of Assistant Secretary of Defense, Installations and Logistics.) [Issued in looseleaf form.] * Paper, 15c. ● Item 314-A D 7.6/4: M 59/3/ch.9
- 16933 MILSTRIP, Military assistance program address directory, supp. 2, Nov. 1, 1968, Change 5B. July 20, 1969. 2+[41] p. 4° (DOD 4140.17-M; Defense Supply Agency.) [Issued in looseleaf form.] * Paper, 45c. ● Item 314-A D 7.6/4: M 59/supp.2/rev.-2/ch.5B
- 16934 MILSTRIP, military assistance program address directory, supp. 2, Oct. 1, 1969. cover title, [365] p. 4° (DoD 4140.17-M; Office of Assistant Secretary of Defense, (Installations and Logistics).) [Issued with perforations. Supersedes DoD 4140.17-M, supp. 2, Nov. 1, 1968, and change 20A and changes 1-6.] * Paper, \$3.00. ● Item 314-A D 7.6/4: M 59/supp.2/rev.-3
- Quality and reliability assurance handbook.
- 16935 57. Procurement quality assurance for fresh dairy products, supp. A. Oct. 1969. cover title, v+24+A15+B1 p. 4° (Office of Assistant Secretary of Defense (Installations and Logistics).) [Issued with perforations.] * Paper, 60c. ● Item 314-A D 7.6/2: 57/supp.A

ECONOMIC DEVELOPMENT ADMINISTRATION, Commerce Dept. Washington, DC 20230

- 16936 Address by Robert A. Podesta, Assistant Secretary of Commerce for Economic Development, scheduled for delivery at Associated Industries of Massachusetts meeting, Boston, Oct. 22, 1969. [1969.] 13 p. 4° ‡ C 46.11: P 75/3
- 16937 Address by William W. Blount, jr., Chief Counsel, Economic Development Administration, Department of Commerce, prepared for delivery at Philadelphia Bar Association's Seminar on Corporation and Ghetto (Private Enterprise in Inner City), Philadelphia, Pa., on Oct. 30, 1969. [1969.] 11 p. 4° ‡ C 46.11: B 62
- 16938 EDA, building communities with jobs. [Sept. 1969.] 8 p. narrow 8° ‡ ● Item 130-D C 46.2: C 73/3/969-2
- 16939 EDA business development loans, who can borrow, how to apply. [Sept. 1969.] 16 p. narrow 8° ‡ ● Item 130-D C 46.2: B 96/969-2
- 16940 EDA grants and loans for public works and development facilities. [Sept. 1969.] 12 p. narrow 8° ‡ ● Item 130-D C 46.2: G 76/2/969-2

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

DECEMBER 1969

- 16941 EDA planning grants for economic development. [Sept. 1969.] 20 p. narrow 8° † ● Item 130-D C 46.2: G 76/969-2
- 16942 EDA technical assistance, what it is, how to apply. [Sept. 1969.] 16 p. narrow 12° † ● Item 130-D C 46.2: T 22/969-2
- 16943 Remarks by Charles A. Fagan, III, Deputy Assistant Secretary of Commerce for Economic Development, at EDA Planning Seminar for Indian Reservation Development Specialists, Oct. 15, [1969], Hardin, Mont. [1969.] 6 p. 4° † C 46.11: F 13
- 16944 Remarks by Thomas P. Dunne, Special Assistant to Charles A. Fagan, III, Deputy Assistant, Secretary of Commerce for Economic Development, for delivery at meeting of National Association for Community Development, Oct. 13 [1969], Silver Spring, Md. [1969.] 7 p. 4° ([US COMM DC 30163.]) † C 46.11: D 92

ECONOMIC OPPORTUNITY OFFICE, Executive Office of the President, Washington, DC 20506

- OEO pamphlets. † ● Item 857-H-17 PrEx 10.23: (nos.)
- 16945 4100-8. If you're not part of the solution, you're part of the problem [VISTA involvement]. [Aug. 1969.] cover title, [26] p. il. 4° (Vista.)
- 16946 6164-2. Indian circle programs. [Oct. 1969.] [4] p. il. narrow 8°

ECONOMIC RESEARCH SERVICE, Agriculture Dept. Washington, DC 20250

Agricultural economic report.

- 16947 168. State and local governmental finances in North Central States, 1964-65; [by Leon B. Perkinson]. [Oct. 1969.] iv+31 p. 4° * Paper, 30c. ● Item 42-C L.C. card 73-604229 A 93.28: 168
- ERS-foreign (series). † ● Item 76-G A 93.21/2: (nos.)
- 16948 278. Agricultural situation in Africa and west Asia, 1969 midyear review; [prepared in Africa and Middle East Branch]. Sept. 1969. 9+[1] p. 4° (Foreign Regional Analysis Division.) [Updates report, Africa and west Asia agricultural situation, review of 1968 and outlook for 1969, ERS-foreign 260, Apr. 1969.]
- 16949 279. Agricultural situation in Western Hemisphere, 1969 midyear review. Oct. 1969. 8 p. 4° (Foreign Regional Analysis Division.)
- 16950 280. Agricultural situation in Far East and Oceania, 1969 midyear review. Oct. 1969. 14 p. 4°

EDUCATION OFFICE, Health, Education, and Welfare Dept. Washington, DC 20202

- 16951 Architectural and building construction technology, suggested 2-year post high school curriculum [with bibliographies]. [1969.] vi+110 p. il. 4° (OE-80062; Technical education program series no. 9.) * Paper, \$1.50. ● Item 460-A-80 FS 5.280: 80062
- L.C. card 70-604369
- 16952 Books related to compensatory education; compiled by Lois B. Watt, Myra H. Thomas, and Eunice von Ende. Feb. 1969. v+46 p. 4° (OE-37045; Bureau of Research.) * Paper, 50c. ● Item 460-A-37 FS 5.237: 37045
- L.C. card 70-604358
- 16953 Computer-based vocational guidance systems, summary of papers presented at 4th symposium for Systems under development for vocational guidance, with description of some guidance systems under development. [1969.] viii+168 p. il. (OE-25053.) * Paper, \$1.25. ● Item 460-A-25 FS 5.225: 25052
- L.C. card 72-604356
- 16954 Diesel servicing (D.O.T. occupational code 625.281), suggested 2-year post high school curriculum [with bibliography]. [1969.] viii+118 p. il. 4° (OE-87045; Bureau of Adult, Vocational, and Library Programs, Manpower Development and Training Program.) [References interspersed.] * Paper, \$1.25. ● Item 460-A-87 FS 5.287: 87045
- L.C. card 71-604416

ΦFor Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 27

GOVERNMENT PUBLICATIONS

- 16955 Dynamics of technology and society, no compromise with ignorance, [address by Grant Venn, Associate Commissioner for Adult, Vocational and Library Programs, Office of Education, presented at American Association of Junior Colleges at Michigan State University, E. Lansing, Mich., Feb. 21, 1969]. [1969.] cover title, [1]+21 p. 4° † FS 5.8: V 56
- 16956 Education of the culturally different, multi-cultural approach, [handbook for educators, with bibliographical essay; by] Jack D. Forbes. [1st edition Jan. 1968, revised Sept. 1969.] [1969.] 64 p. [Prepared by Far West Laboratory for Educational Research and Development.] * Paper, 35c. ● Item 461 (Rev. 1965)
L.C. card 78-604395 FS 5.6/2: C 89
- 16957 Elementary teacher training models, 9 program models submitted to Office of Education. [Sept. 1969.] cover title, iii+66 p. il. 4° ([OE-58033; Bureau of Research.]) † ● Item 460-A-58
L.C. card 74-604394 FS 5.258: 58033
- 16958 Inventory of Federal programs involving educational activities concerned with improving international understanding and cooperation. June 1969. xx+545 p. 4° (Institute of International Studies.) [Interagency Survey conducted for Congress by Health, Education, and Welfare Dept.] * Paper, \$1.75. ● Item 460-A-14
L.C. card 70-604405 FS 5.214: 14142
- 16959 Manpower research, inventory for fiscal year 1968; prepared by Interagency Committee on Manpower Research. [1969.] vi+154 p. oblong 12° ([OE-12036-68; ERIC, Educational Resources Information Center.]) [Indexed and abstracted by ERIC, Clearinghouse for Vocational and Technical Education, Ohio State University.] * Paper, \$1.75. ● Item 460-A-12
L.C. card 71-600520 FS 5.212: 12036-68
- 16960 National assessment, where is it now[by Eleanor L. Norris. [1969.] [4] p. il. large 4° (OE-12048.) [Reprinted from American Education.] * Paper, 10c. ● Item 460-A-12 FS 5.212: 12048
- 16961 Projects under new bilingual education program. [1969.] [4] p. large 4° (OE-30023.) [Reprinted from American education, Oct. 1969.] * Paper, 10c. ● Item 460-A-30 FS 5.230: 30023
- 16962 Reference tools 1968-69, bibliography based on acquisitions of Educational Materials Center from Jan. 1968-July 1969; [prepared by Caroline Stanley]. [1969.] [5]+5 p. 4° (OE-10063.) * Paper, 25c. ● Item 460-A-10 FS 5.210: 10063
- 16963 Selected financial statistics of institutions of higher education, 1967-68: [by Paul F. Mertins and Norman J. Brandt]. [Sept. 1969.] [3] p. 4° ([OE-52008-68]; National Center for Educational Statistics.) * Paper, 10c. ● Item 460-A-52 FS 5.252: 52008-68
- 16964 Vocational education amendments of 1968. June 1969. cover title, iii+12 p. (OE-80064.) * Paper, 15c. ● Item 460-A-80 FS 5.280: 80064

EMPLOYEES' COMPENSATION APPEALS BOARD, Labor Dept. Washington, DC 20210

- 16965 Federal work injuries sustained during calendar year 1968. Federal employees' compensation act; [prepared by Statistical Division]. [Sept. 1969.] cover title, [1]+28 p. oblong 12° † ● Item 750-C L 26.8: 968

EMPLOYEES' COMPENSATION BUREAU, Labor Dept. Washington, DC 20210

- 16966 Medical facilities available to employees of United States Government injured in performance of duty under Federal employees' compensation act of Sept. 7, 1916, as amended. [Revised] June 1969. [1969.] iv+62 p. 4° (Pamphlet BEC-576.) † ● Item 750 L 26.2: M 46/969

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**EMPLOYMENT SECURITY BUREAU, Labor Dept.
Washington, DC 20210**

- 16967 Manpower development and training act of 1962, as amended, MDTA handbook: chap 3, Training project development, Dec. 1968, cover title, [192] p. 4° (United States Employment Service, Branch of Training Procedures and Standards.) [Issued in looseleaf form.] † ● Item 756-B L 7.25/3: M 31/chap.3/968

ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Orders or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, DC, 20310, Attention Publications Office.

Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. price upon application).

Waterways Experiment Station: Research report.

- 16968 H-69-1. Water wave transmission through and reflection by previous coastal structures, hydraulic laboratory investigation [with list of literature cited]; by A. M. Kamel. Army-MCR Vicksburg, Miss., Oct. 1969, [72] p. il. 4° [Sponsored by Office, Chief of Engineers, Army.] D 103.24/5: H-69-1

— Technical report.

- 16969 2-735. Errata sheet 1. Model studies of navigation improvements, Columbia River Estuary: Report 1, Hydraulic and salinity verification, Dec. 1968, Oct. 22, 1969, 1 p. 1 pl. 4° † D 103.24/2: 2-735/errata 1

**ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION,
Commerce Dept. Washington, DC 20235**

- 16970 Catalog of U.S. Government meteorological research and test facilities, Sept. 1969, v+123 p. il. (FMC 69-4; Federal Coordinator for Meteorological Services and Supporting Research.) † ● Item 208-B-1 L.C. card 79-604450 C 52.2: M 56/3

ESSA technical memorandum. (Weather Bureau; Data Acquisition Division, Office of Meteorological Operations, Silver Spring, Md.)

- 16971 WBTM DATAC 2. Computability of radiosonde data at stratospheric levels over northern hemisphere [with list of references; by] Raymond M. McInturf and Frederick G. Finger, Dec. 1968, Reprinted Oct. 1969, [3]+61 p. il. 4° † C 52.15/2: WBTM DATAC 2

ESSA technical memorandum. (Weather Bureau, Systems Development Office, Techniques Development Laboratory.)

- 16972 WBTM TDL 23. Operational subsynoptic advection model [with list of references; by] Harry R. Glahn, Dale A. Lowry, George W. Hollenbaugh, July 1969, iii+26 p. il. 4° † C 52.15/2: WBTM TDL 23

ESSA technical report. (Weather Bureau.)

- 16973 WB-11. Monthly 100-, 50-, 30- and 10-millibar charts and standard deviation maps 1966-67 [with list of references; by Staff, Upper Air Branch, National Meteorological Center, Hillcrest Heights, Md.], Apr. 1969, ii+124 p. il. 4° * Paper, \$1.25. ● Item 208-B-7 C 52.15: WB-11

- 16974 Explanation of the weather map, Sept. 1969, 1 sheet il. oblong f° folded into 8° size. * Paper, \$3.75 per 50 copies. ● Item 208-B-1 C 52.2: W 37/6

**FEDERAL AVIATION ADMINISTRATION, Transportation Dept.
Washington, DC 20553**

- 16975 Airman's information manual: pt. 2, Airport directory, autumn-fall 1969, [1969.] cover title, v+285 p. 4° (AIP AGA 3.) [Semiannual. Issued with perforations.] * Paper, \$4.00 a yr., \$1.00 additional for foreign mailing. ● Item 431-C-5 L.C. card 78-602583 TD 4.12: pt.2/969-2

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 29

GOVERNMENT PUBLICATIONS

Federal aviation regulations. [Issued in looseleaf form.] ● Item 431-C-13

TD 4-6:(nos.)

- 16976 pt. 63. Certification: Flight crewmembers other than pilots. [1969.] cover title, [44] p. 4° [Consolidated reprint incorporates Changes 1 through 11.] * Paper, 55c.
- 16977 pt. 63. Certification: Flight crewmembers other than pilots, Change 11 [effective] Sept. 5, 1969. [1969.] [16] p. 4° [Incorporates amendment 63-10. Last page intentionally left blank.] †
- 16978 pt. 65. Certification: Airmen other than flight crewmembers. [1969.] cover title, [38] p. 4° [Consolidated reprint incorporates Changes 1-12.] * Paper, 45c.
- 16979 pt. 127. Certification and operations of scheduled air carriers with helicopters, Change 11 [effective] Sept. 5, 1969. [1969.] [28] p. 4° [Incorporates amendments 127-10, 127-11 and 127-12.] †
- 16980 pt. 135. Air taxi operators and commercial operators of small aircraft, Change 6 [effective] Sept. 5, Nov. 15, Oct. 30, 1969. [1969.] [16] p. 4° [Incorporates amdt. 135-8, 135-9, 135-10.] †
- 16981 Federal aviation regulations, v. 10, Sept. 1969. [1969.] cover title, [190] p. 4° [Issued in looseleaf form.] * Paper, \$4.50 (including basic volume and supplementary material for an indefinite period); \$1.25 additional for foreign mailing. ● Item 431-C-13
Includes—Part 151, Federal aid to airports—Part 153, Acquisition of U.S. land for public airports—Part 155, Release of airport property from surplus property disposal restrictions—Part 159, National Capital airports—Part 165, Wake Island code—Part 167, Annette Island, Alaska, Airport. TD 4.6/3: v.10
- Handbooks. † ● Item 431-C-4 TD 4.8/2:(nos.)
- 16982 1380.9A. Airway facilities sector level, maintenance staffing criteria and standards, Aug. 19, 1969, cover title, [181] p. il. 4° [Text on p. 2 of cover. Issued with perforations. Cancels Handbook 1380.9.]
- 16983 3900.19. Occupational safety, Aug. 19, 1969, cover title, [2] + viii + 152 p. il. 4° [Text on p. 2 of cover. Issued with perforations.]
- 16984 Near midair collision report of 1968 [with list of references; prepared by NMAC Study Group], July 1969, cover title, xxiv + 187 p. il. 4° (Air traffic & flight standards technical report.) [Prepared in joint participation with aviation industry.] † ● Item 431-C-8
L.C. card 74-604414 TD 4.2: C 69/2

FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

- 16985 Amendments to Sept. 1960 edition of Communications Act of 1934, packet no. 5; Jan. 1969, 1969. [51] p. [Issued in looseleaf form.] * Paper, 35c. ● Item 286 CC 1.5: C 73/960/amdt.5
- 16986 Special study guide, announcer, operator, radio-telephone 3d class operator permit with broadcast endorsement, 1969. [1] + 21 p. il. 4° (Field Engineering Bureau.) * Paper, 20c. ● Item 285-A CC 1.7/4: R 11/969

FEDERAL CREDIT UNIONS BUREAU, Health, Education, and Welfare Dept., Washington, DC 20201

- 16987 Credit manual for Federal credit unions, Oct. 1969, iv + 44 p. 4° (FCU 548.) [Supersedes all previous editions.] * Paper, 75c. ● Item 526-B
L.C. card 72-604419 FS 3.306/2: C 86/969
- 16988 State-chartered credit unions, 1968. [Aug. 1969.] [6] + 21 p. il. 4° (FCU 560 (BFCU: R-11).) [Map on p 4 of cover.] †
L.C. card 59-60752 FS 3.302: St 2/968

FEDERAL HOUSING ADMINISTRATION, Housing and Urban Development Dept., Washington, DC 20411

- 16989 FIIA monthly report of operations; pt. 1, Project mortgage programs; pt. 2, Home mortgage programs; pt. 3, Summary of activity under all sections. (RR:301; Division of Research and Statistics, Statistics Section.) [Monthly. Issued with perforations. All parts issued as one publication prior to July 1969 issues.] † HH 2.27:(date)
July 1969—

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16990 **FHA regulations:** [Home mortgage regulations, amendments to secs. 203, 220.]. [1969.] [6] p. ([FHA 3000.]) [Includes Home regulations transmittal 67, July 1969. Issued in looseleaf form.] †
HH 2.6: M 84/7/964/trans.67
- 16991 — [Home mortgage regulations, amendments to secs. 207, 213, 220, 221, 232, 233, 235, 236, 241, 242, §10. [1969.] [104] p. ([FHA 4000.]) [Includes Project mortgage transmittal 66, June 27, 1969. Issued in looseleaf form.] †
HH 2.6: M 84/6/964/66

FEDERAL MARITIME COMMISSION
Washington, DC 20573

- FMC SP (series). † FMC 1.9: (nos.)
- 16992 69-21. Remarks of Commissioner George H. Hearn of Federal Maritime Commission, before New York City Chapter of I.C.C. Practitioners, New York Traffic Club, Oct. 21, 1969. [1969.] 6 p. 4°
- 16993 69-22. Remarks of George H. Hearn of Federal Maritime Commission, at National Defense Transportation Association, Industry/Government Container Seminar, Washington Hilton Hotel, Washington, D.C., Nov. 3-4, 1969. [1969.] 6 p. 4°

FEDERAL POWER COMMISSION
Washington, DC 20426

- FPC S (series).
- 16994 197. Statistics of interstate natural gas pipeline companies, 1968, compiled from annual reports submitted by interstate natural gas pipeline companies pursuant to requirements of Natural gas act, classes A and B companies; [prepared by Office of Accounting and Finance]. July 1969. [139] p. il. 4°
* Paper, \$1.25. • Item 440
L.C. card 44-40870 FP 1.21: 197
- National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]
- NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$12.50 a year, \$4.25 additional for foreign mailing; single copy, 25c.
- 16995 Georgia, Aug. 1969. [2]+18 p. 4° [Supersedes issue of Nov. 1968.] • Item 437-A-9
L.C. card 73-603343 FP 1.18: G 29/969
- 16996 Kansas, Aug. 1969. [2] leaves+26 p. 4° [Supersedes issue of Oct. 1968.] • Item 437-A-14
L.C. card 73-603343 FP 1.18: K 13/969
- 16997 Mississippi, Aug. 1969. [2]+15 p. 4° [Supersedes issue of Jan. 1968.] • Item 437-A-22
L.C. card 73-603343 FP 1.18: M 69 i/969

FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS
Washington, DC 20551

- 16998 Bank lending practices and changes in monetary environment, remarks by George W. Mitchell, Member, Board of Governors of Federal Reserve System at Robert Morris Associates Conference San Juan, Oct. 27, 1969. 1969. [1]+15 p. 4° †
FR 1.23: M 69/55
- 16999 Historical chart book, 1969. [1969.] [4]+123 p. il. oblong 8° [Contains charts that supplement monthly Federal reserve chart book.] † Paper. 60c., quantities of 10 or more in single shipment, 50c. each; 10c. additional for foreign mailing, one copy included in annual subscription to Federal reserve chart book.
L.C. card 50-13379 FR 1.30/2: 969
- 17000 Housing and financing, remarks of Sherman J. Maisel, member, Board of Governors of Federal Reserve System, at annual meeting of Board of Directors of National Lumber and Building Material Dealers Association, Phoenix, Ariz., Oct. 29, 1969. 1969. [1]+7 leaves, 4° †
FR 1.23: M 28/20

GOVERNMENT PUBLICATIONS

- 17001 Preliminary post-mortem on 1969 economic projections, remarks of Sherman J. Maisel, Member, Board of Governors of Federal Reserve System, at joint meeting of Boards of Directors of Federal Reserve Bank of San Francisco and its Los Angeles Branch, Los Angeles, Calif., Oct. 15, 1969. [1969.] [1]+9 p. 4° † FR 1.23: M 28/19
- 17002 Reminiscences and reflections from remarks of Wm. McC. Martin, jr., Chairman, Board of Governors of Federal Reserve Systems, before Business Council, Hot Springs, Va., Oct. 17, 1969. [1969.] [1]+13 p. 4° † FR 1.23: M 36/33

FEDERAL SUPPLY SERVICE, General Services Administration Washington, DC 20105

- 17003 Federal specifications. ● Item 563. GS 2.8:
NOTE.—These specifications are completely covered by the Index of Federal specifications and standards. Individual specifications are not listed in the Monthly Catalog.
Index of Federal specifications and standards, January 1, 1969, with cumulative supplements as issued (GS 2.8/2:969) is sold by the Superintendent of Documents on a subscription basis at \$3.00 a yr.; 75c additional for foreign mailing.
Federal test method standards. [Issued in looseleaf form.] ● Item 563 GS 2.8/7: (nos.)
NOTE.—Federal test method standards may be purchased from the General Services Administration, Specifications Activity, Printed Materials Supply Division, Building 197, Naval Weapons Plant, Washington, D.C. 20407. *All checks and money orders should be made payable to the Treasurer of the United States.* Single copies are available without charge at the nearest GSA regional office.
- 17004 501a. Floor coverings, resilient, nontextile; Sampling and testing, June 15, 1966, Change 1, Aug. 11, 1969. [4] p. il. 4° [Supersedes method 3411, June 15, 1966.] †

FEDERAL TRADE COMMISSION Washington, DC 20580

- 17005 National consumer protection hearings, Nov. 1968 [published 1969]. ix+375 p. 4° * Paper, \$2.75. ● Item 535
L.C. card 77-604392 FT 1.2: C 76/3/968

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION, Interior Dept., Washington, DC 20242

- 17006 Conference, pollution of interstate waters of Merrimack and Nashua Rivers and their tributaries, Mass.-N.H., and of intrastate portions of those waters within State of Massachusetts, proceedings, 2d session, Dec. 18, 1968, Concord, N.H. [1969.] cover title, 326 p. il. 4° † ● Item 473-A-1
L.C. card 70-604318 I 67.2: M 55
- 17007 Primer on waste water treatment; [prepared by Office of Public Information]. [Oct. 1969.] [2]+26 p. il. 4° ([CWA-12.]) [Some illustrations are colored.] * Paper, 55c. ● Item 473-A-1 I 67.2: W 28

FOOD AND DRUG ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201

- 17008 National drug code directory [with list of references; prepared by Science Information Facility]. [Oct. 1969.] [388] p. 4° [Edge index on p. 4 of cover.] * Paper, \$2.75. ● Item 475-N
L.C. card 76-604050 FS 13.134: 969
- 17009 Pesticide analytical manual; v. 2 [Methods for individual pesticide residues, revised July 1967], revised and/or corrected pages. [Revised July 1, 1969.] [1969.] [181] p. il. 4° † FS 13.119: P 43/v.2/967/rev.pages-2

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

FOOD AND NUTRITION SERVICE, Agriculture Dept.
Washington, DC 20250

NOTE.—The Food and Nutrition Service was established by Secretary of Agriculture's Memorandum no. 1659, Supplement I, August 8, 1969.

- 17010 Your family food donation program. [Nov. 1969.] [6] p. il. narrow 8° †
● Item 74-A-1 A 98.2: F 21

FOREIGN AGRICULTURAL SERVICE, Agriculture Dept.
Washington, DC 20250

- 17011 Report of United States Government to Food and Agriculture Organization of United Nations 1967-68, under art. 11 of FAO constitution; prepared under auspices of U.S. FAO Interagency Committee [by Ralph W. Phillips and others]. Oct. 1969. viii+232 p. [Title on cover is: U.S. report to FAO 1967-68.] † ● Item 76-11
L.C. card 55-61390 A 67.35: 967-68

FOREIGN CLAIMS SETTLEMENT COMMISSION
Washington, DC 20579

- 17012 Annual report to Congress for period Jan. 1-Dec. 31, 1968. [1969.] v+114 p.
† ● Item 1063-C
L.C. card 76-601284 Y 3.F 76 3: 1/968

FOREST SERVICE, Agriculture Dept.
Washington, DC 20250

- 17013 Forest Service, how it fits in the Federal structure. June 1969. [2]+14 p.
4° † A 13.2: F 76/76
- 17014 Important forest insect outbreaks in Oregon and Washington in 1969; by Leon F. Pettinger and Robert E. Dolph. Oct. 1969. [6] leaves, il. 4°
(R-6.) † A 13.2: In 7/4/969
- 17015 Interior Alaska wildfires, 1956-65; [by] Richard J. Barney. 1969, cover title, ii+47 p. il. 4° (Pacific Northwest Forest and Range Experiment Station, Institute of Northern Forestry, Juneau, Alaska.) †
A 13.66/2: A1 Is/4/956-65
- 17016 Regulation governing use of national forest recreation sites & areas. [1969.] [6] p. il. narrow 8° (California Region.) † A 13.36: R 24/2
Research note FPL-(series). (Forest Products Laboratory, Madison, Wis.)
† A 13.79: FPL-(nos.)
- 17017 FPL-0201. Exploratory investigation of fire-retardant treatments for particle-board [with list of literature cited; by Arthur D. Syska]. Aug. 1969, cover title, 20+[13] p. il. 4° [Prepared in cooperation with University of Wisconsin. Text on p. 2-3 of cover.]
- 17018 FPL 0206. Lignin and its uses [with list of suggestions for further reading]; by John M. Harkin. July 1969. 9 p. 4°
- Research note NC-(series). (North Central Forest Experiment Station, St. Paul, Minn.) † A 13.79: NC-(nos.)
- 17019 NC-74. New farm fencing declines, use of treated posts up; [by David C. Baumgartner]. [1969.] 3 p. 4° [Issued with perforations.]
- 17020 NC-75. Bark characteristics indicate age and growth rate of yellow birch [with list of literature cited; by Knud E. Clausen and Richard M. Godman]. [1969.] 3 p. il. 4° [Issued with perforations.]
- 17021 NC-76. Basal stem canker of sugar maple; [by Kenneth J. Kessler, jr.]. [1969.] 2 p. il. 4° [Issued with perforations.]
- 17022 NC-77. Interpreting neutron probe readings in frozen soil [with list of literature cited; by Richard S. Sartz]. [1969.] 4 p. il. 4° [Issued with perforations.]
- 17023 NC-78. Water storage and related physical characteristics of 4 mineral soils in north central Minnesota; [by E. S. Verry]. [1969.] 4 p. 4° [Issued with perforations.]
- 17025 NC-79. Computer calculation of fire danger; [by William A. Main]. [1969.] 4 p. il. 4° [Issued with perforations.]
- 17025 NC-80. Characteristics of blister rust cankers on eastern white pine; [by William R. Phelps and Ray Weber.] [1969.] [2] p. 4° [Issued with perforations.]

GOVERNMENT PUBLICATIONS

Research note NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) † A 13.79: NE-(nos.)

- 17026 NE-92. Improved technique for taking hydraulic conductivity cores from forest soils; [by Gerald M. Aubertin]. 1969. 4 p. il.
- 17027 NE-93. Campground marketing, heavy-haul strategy [with list of literature cited; by Wilbur P. LaPage]. 1969. 6 p.
- 17028 NE-94. Device for measuring soil frost [with list of literature cited; by James H. Parrie and Burley D. Fridley]. 1969. 7 p. il.
- 17029 NE-95. A glimpse at New York's current timber resources. 1969. 6 p. il.

Research note PNW-(series). (Pacific Northwest Forest and Range Experiment Station, Portland, Oreg.)

- 17030 PNW-108. Simple, quantitative method of assaying soil for inhibitory fungi; by C. Y. Li [and others]. July 1969. 3 p. il. 4° † A 13.79: PNW-108

Research note PSW-(series). (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.) † A 13.79: PSW-(nos.)

- 17031 PSW-182. Portable station for recording fire weather data; [by] John R. Murray, Clive M. Countryman. 1968. 7 p. il. 4°
- 17032 PSW-187. Elementary allocation models, how to use them in forestry operations; [by] James B. Davis. 1969. 8 p. il. 4°
- 17033 PSW-188. Use of air tankers pays off, case study; [by] Clive M. Countryman. 1969. 4 p. il. 4°
- 17034 PSW-189. Early growth and development of 4 pine species in Hawaii; [by] Thomas H. Schubert, Karl H. Korte. 1969. 4 p. il. 4°
- 17035 PSW-190. Length and area equivalents for interpreting wildland resource maps; [by] Elliot L. Amidon, Marilyn S. Whitfield. 1969. 11 p. 4°
- 17036 PSW-193. FAMULUS, computer-based system for augmenting personal documentation efforts [with list of references; by] Hilary D. Burton, Robert M. Russell, [and] Theodor B. Yerke. 1969. 6 p. 4°

Research paper FPL-(series). (Forest Products Laboratory, Madison, Wis.) † A 13.78: FPL-(nos.)

- 17037 FPL-109. Container effects in cushioned packages, urethane foam corner pads; [by C. A. Jordan]. Aug. 1969. cover title, 20 p. il. 4° [Text on p. 2 of cover. Accompanied by abstract cards.]
- 17038 FPL-112. Appalachian hardwoods for pallets, effect of fabrication variables and lumber characteristics on performance; [by R. S. Kutenacker]. 20 p. il. 4° [Text on p. 2 of cover. Accompanied by abstract cards.]

Research paper INT-(series). (Intermountain Forest and Range Experiment Station, Ogden, Utah.)

- 17039 INT-59. Selecting crawler skidders by comparing relative operating costs; [by] Paul L. Schillings. 1969. [4]+20+[1] p. il. 4° [Some illustrations are colored.] † A 13.78: INT-59

Research paper NC-(series). (North Central Forest Experiment Station, St. Paul, Minn.) † A 13.78: NC-(nos.)

- 17040 NC-29. Durable rustic wooden signboards; [by] Glenn A. Cooper. 1969. cover title, 15 p. il. 4° [Table of contents on p. 2 of cover. Abstract cards inserted.]
- 17041 NC-30. Market for wood picnic structures; [by] Jerry A. SESCO. 1969. cover title, 7 p. il. 4° [Contents on p. 2 of cover. Abstract cards inserted.]

Research paper NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) † A 13.78: NE-(nos.)

- 17042 NE-127. Photo guide to patterns of discoloration and decay in living northern hardwood trees [with one reference]; by Alex L. Shigo and Edwin H. Larson. 1969. cover title, [3]+100 p. il. [Accompanied by abstract cards. Some illustrations are colored.] L.C. card 74-604481
- 17043 NE-128. Trees and shrubs of Penobscot Experimental Forest, Penobscot County, Maine [with list of literature cited]; by Lawrence O. Safford, Robert M. Frank [and] Elbert L. Little, jr. 1969. cover title, [2]+27 p. il. [Text on p. 2 of cover. Abstract cards inserted.] L.C. card 76-604436
- 17044 NE-129. Rate of value increase for northern red oak, white oak, and chestnut oak [with list of references]; by George R. Trimble, jr., and Joseph J. Mendel. 1969. cover title, [1]+29 p. il. [Text on p. 2 of cover. Abstract cards inserted.]
- 17045 NE-130. Silvicultural guide for paper birch in Northeast; by David A. Marquis, Dale S. Solomon; John C. Bjorkbom. 1969. cover title, [2]+47 p. il. [Abstract cards inserted.] L.C. card 79-604485
- 17046 NE-131. Department of Defense market for wooden pallets. 1967 [with bibliography]; by John T. Lucas and Walter B. Wallin. 1969. cover title, 20 p. il. [Text on p. 2 of cover. Abstract cards inserted.]
- 17047 NE-132. Use of wooden pallets in brewing industry [with list of literature cited]; by John T. Lucas. 1969. cover title, [1]+17 p. il. [Text on p. 2 of cover. Abstract cards inserted.] L.C. card 71-604483

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 17048 NE-133. Guidelines for establishing forestry cooperatives [with list of selected references]; by Gilbert P. Dempsey and Clyde B. Markeson. 1969. cover title, [1]+38 p. il. [Text on p. 2 of cover. Abstract cards inserted.]
L.C. card 70-604484
- 17049 NE-134. Local seed sources recommended for loblolly pine in Maryland and shortleaf pine in New Jersey and Pennsylvania [with list of literature cited]; by S. Little. 1969. cover title, 16 p. il. [Text on p. 2 and 3 of cover. Abstract cards inserted.]
L.C. card 78-604482

Research paper PNW-(series). (Pacific Northwest Forest and Range Experiment Station, Portland, Oreg.) † A 13.78: PNW-(nos.)

- 17050 PNW-77. Properties of tree barks in relation to their agricultural utilization [with list of literature cited; by] W. B. Bollen. [1969.] iii+36+[1] p. il. 4°
- 17051 PNW-81. Effect of asphalt and wax emulsions on moisture changes in slash; [by] James L. Murphy, Charles W. Philpot [and] Morris J. Garber. 1969. cover title, 14+[1] p. il. 4°
- 17052 PNW-83. Mass wasting in coastal Alaska [with list of literature cited; by] Douglas N. Swanson. 1969. cover title, 15+[1] p. il. 4° [Table of contents on p. 2 of cover.]

Research paper PSW-(series). (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.)

- 17053 PSW-51. Stratifying stand volume on non-stereo aerial photos reduces errors in forest survey estimates [with list of literature cited; by] Robert C. Aldrich, Nancy X. Norick. 1969. cover title, [2]+14 p. il. 4° [Abstract cards inserted.]
L.C. card 75-604650 A 13.78: PSW-51

Research paper SE-(series). (Southeastern Forest Experiment Station, Asheville, N.C.)

- 17054 SE-47. Seeding habits of swamp tupelo; [by Dean S. DeBell]. Apr. 1969. cover title, 8 p. il. 4° [Accompanied by abstract cards.] †
A 13.78: SE-47

GENERAL ACCOUNTING OFFICE

Washington, DC 20548

- 17055 Report to Committee on Finance, Senate: Medicare payments for services of supervisory and teaching physicians at Cook County Hospital, Chicago, Ill., Social Security Administration, Department of Health, Education, and Welfare; by Comptroller General of United States. Sept. 3, 1969. cover title, [9]+123 p. 4° (B-164031(4).) † Paper, \$1.00.
L.C. card 71-604223 GA 1.13: M 46/13
- 17056 Report to Committee on Ways and Means, House of Representatives: Monitoring of special review of aid to families with dependent children in New York City, conducted by Department of Health, Education, and Welfare, and New York State Department of Social Services; by Comptroller General of United States. Oct. 17, 1969. cover title, [8]+53 p. 4° (B-164031(3).) † Paper, \$1.00.
L.C. card 75-604137 GA 1.13: C 43/5
- 17057 Report to Congress: Audit of Federal Savings and Loan Insurance Corporation supervised by Federal Loan Bank Board for year ended Dec. 31, 1968; by Comptroller General of United States. Oct. 14, 1969. cover title, [1]+2+[2]+31 p. 4° (B-114893.) † Paper, \$1.00.
L.C. card 76-604452 GA 1.13: F 31/10/968
- 17058 — Cost reduction and management improvement program in selected departments and agencies; by Comptroller General of United States. Oct. 15, 1969. cover title, [1]+5+[2]+72 p. 4° (B-163762.) † Paper, \$1.00.
L.C. card 72-603978 GA 1.13: C 82/10
- 17059 — Effectiveness and administration of Collbran Job Corps Civilian Conservation Center under Economic opportunity act of 1964, Collbran, Colo., Department of Interior, Office of Economic Opportunity; by Comptroller General of United States. Oct. 21, 1969. cover title, [1]+3+[2]+66 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 74-604205 GA 1.13: C 68/3

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 35

GOVERNMENT PUBLICATIONS

- 17060 Report to Congress: Effectiveness and administration of Community Action Program and selected manpower programs under titles 1 and 2 of Economic opportunity act of 1964, Los Angeles County, Calif., Office of Economic Opportunity, Department of Labor; by Comptroller General of United States. Oct. 23, 1969. cover title, [1]+4+[3]+128 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 73-604391 GA 1.13: L 89/3
- 17061 — Effectiveness and administration of Community Action Program under title 2 of Economic opportunity act of 1964, Detroit, Mich., Office of Economic Opportunity; by Comptroller General of United States. Sept. 25, 1969. cover title, [1]+4+[4]+143 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 74-604319 GA 1.13: D 48/5
- 17062 — Effectiveness and administrative efficiency of concentrated employment program under title 1B of Economic opportunity act of 1964, Detroit, Mich., Department of Labor; by Comptroller General of United States. Oct. 27, 1969. cover title, [1]+3+[3]+63 p. 4° (B-130515.) † Paper, \$1.00.
L.C. card 70-604204 GA 1.13: D 48/4
- 17063 — Effectiveness and administrative efficiency of concentrated employment program under title 1B of Economic opportunity act of 1964, Los Angeles, Calif., Department of Labor; by Comptroller General of United States. Oct. 24, 1969. cover title, [10]+92 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 72-604147 GA 1.13: Em 7/8
- 17064 — Effectiveness and administrative efficiency of Neighborhood Youth Corps program under title 1B of Economic opportunity act of 1964, selected rural areas of Minnesota, Department of Labor; by Comptroller General of United States. Oct. 14, 1969. cover title, [1]+3+[4]+100 p. il. 4° (B-130515.) † Paper, \$1.00.
L.C. card 79-603977 GA 1.13: M 66/4
- 17065 — Foreign aid provided through operations of United States Sugar act and International coffee agreement, Department of Agriculture, Department of State, Agency for International Development; by Comptroller General of United States. Oct. 23, 1969. cover title, [8]+80 p. 4° (B-167416.) † Paper, \$1.00.
L.C. card 70-604390 GA 1.13: F 76/9
- 17066 — Opportunities for increasing effectiveness of conservation operations program, Soil Conservation Service, Department of Agriculture, by Comptroller General of United States. Oct. 22, 1969. cover title, [1]+3+[2]+32 p. 4° (B-114833.) † Paper, \$1.00.
L.C. card 78-604222 GA 1.13: C 76/26
- 17067 — Unused engineering and design effort in military construction program, Department of Defense; by Comptroller General of United States. Oct. 22, 1969. cover title, [6]+29 p. 4° (B-133316.) † Paper, \$1.00.
L.C. card 71-604207 GA 1.13: M 59/27

GENERAL SERVICES ADMINISTRATION Washington, DC 20405

- 17068 Doing business with Federal Government. [Revised edition.] [June 1969.] cover title, v+65+[22] p. il. 4° † ● Item 559-B
L.C. card 70-604307 GS 1.6/6: B 96/969

GEOGRAPHIC NAMES BOARD, Interior Dept. Washington, DC 20240

Gazetteer.

- 17069 14. Antarctica, official name decisions of United States Board of Geographic names; prepared in Geographic Names Division Army Topographic Command. 3d edition. June 1969. [2]+iii+[1]+217 p. il. oblong 8° [Series designated on cover as Gazetteer no. 14-3.] † Army Topographic Command, 6500 Brooks Lane, Washington, DC 20315, Att: Geographic Names Division, 13600
L.C. card 75-604417 I 33.8: 14/3

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

GEOLOGICAL SURVEY, Interior Dept.
Washington, DC 20242

- Bulletins. ● Item 620 I 19.3:(nos.)
- 17070 1280. Pennsylvanian formations of southwest Virginia [with list of references cited]; by Ralph L. Miller. 1969. iv+62 p. li. 1 pl. in pocket [Description and type sections of Lee Formation, Norton Formation, Gladeville Sandstone, and Wise Formation, and description of Harlan Formation.] * Paper, 70c. L.C. card 70-602850
- 17071 1289. Atomic-absorption methods of analysis useful in geochemical exploration [with list of references cited]; by F. N. Ward [and others]. 1969. iii+45 p. [Compilation of atomic-absorption methods yielding data on geologic materials useful in geochemical prospecting for ore deposits.] * Paper, 30c. L.C. card 76-603254
- 17072 New reports by Geological Survey about water in Pacific Northwest. Nov. 6, 1969. [1] p. 4° (NW Water Resources Data Center, Water Resources Division, Portland, Oreg.) [Issued with perforations.] † I 19.14/2: W 29/10/969
- 17073 Pacific Northwest water resources summary, annual summary, water year 1969. [1969.] 22 p. il. 4° [Prepared in collaboration with Water Survey of Canada. Issued with perforations.] † I 19.46: 969

Water-supply paper.

- 17074 1957. Quality of surface waters of United States 1964: pts. 7 and 8. Lower Mississippi River basin and western Gulf of Mexico basins [with list of literature cited; prepared by personnel of Water Resources Division]. 1969. xii+602 p. li. [Prepared in cooperation with States of Arkansas, Colorado, Kansas, Louisiana, Mississippi, Missouri, New Mexico, Oklahoma, Tennessee, Texas, and other agencies.] * Paper, \$2.50. ● Item 625 L.C. card GS 43-68 I 19.13: 1957

GOVERNMENT PRINTING OFFICE
Washington, DC 20401

- 17075 Specimens of type faces. [1969.] cover title, [12]+xxvi+350 p. il. 4° [Includes GPO typeface classification system conversion instructions. Issued with perforations.] * Paper, \$5.00. ● Item 548 L.C. card 79-604651 GP 1.2: T 98/11/969

HOUSING AND URBAN DEVELOPMENT DEPARTMENT
Washington, DC 20410

- 17076 Address by George Romney, Secretary of Department of Housing and Urban Development at dedication of Law Enforcement Center, Charlotte, N.C., Oct. 14, 1969. [1969.] 10 p. 4° (HUD news.) † HH 1.7: R 66/5
- 17077 Address by Richard C. Van Dusen, Under Secretary, Department of Housing and Urban Development, before American Gas Association, Denver, Colo., Oct. 21, 1969. 1969. 23 p. 4° † HH 1.7: V 28/4
- 17078 Address by Woodward Kingman, President, Government National Mortgage Association, Deputy Commissioner, Federal Housing Administration and Deputy Assistant Secretary for Mortgage Credit, Department of Housing and Urban Development to National League of Insured Savings Association, Boston, Mass., Oct. 14, 1969. [1]+14 p. 4° † HH 1.7: K 59/3
- 17079 Address prepared for delivery by George Romney, Secretary, Department of Housing and Urban Development to Mortgage Bankers Association of America; New York, N.Y., Oct. 20, 1969. [1969.] [1]+9 p. 4° (HUD news.) † HH 1.7: R 66/6
- HUD Clearinghouse Service HCS-(series). ● Item 582-J HH 1.35:(letters-nos.)
- 17080 D/1. Selected information sources for urban specialists; prepared by HUD Clearinghouse Service, June 1969, cover title, [2]+iv+43 p. 4° (Urban Management Assistance Administration, Office of Metropolitan Development.) * Paper, 50c. L.C. card 78-604344

GOVERNMENT PUBLICATIONS

HUD Clearinghouse Service HCS-(series)—Continued

- 17081 G/1. Handbook on federally supported state technical assistance for community development, report of interagency technical assistance study committee, May 1969, cover title, iv+108 p. 4° (Office of Metropolitan Development.) [Prepared in cooperation with Department of Agriculture, Department of Labor, Department of Commerce (EDA), Department of Health, Education, and Welfare, Department of Transportation, Office of Economic Opportunity.] †
L.C. card 77-603892
- 17082 PR/3. Selected abstracts of planning reports, June 1969, cover title, [2]+v+98 p. 4° (Urban Management Assistance Administration, Office of Metropolitan Development.) * Paper, \$1.00.
- 17083 RP/3. Recent research in public administration, reference, 1969: [prepared with assistance of International City Managers' Association and Science Information Exchange], June 1969, cover title, [1]+v+143 p. 4° (Urban Management Assistance Administration, Office of Metropolitan Development.) * Paper, \$1.25.
- HUD handbooks. ● Item 582-E HH 1.6/6:(letters-nos.)
- 17084 FHA 4400.30. Regular income limits for sec. 235 and 236 housing (based on 135 percent of public housing admission limits), United States list by States, counties, localities, Oct. 1969. [127] p. 4° [Issued with perforations.] †
- 17085 RHA 7221.1. Urban renewal handbook transmittal, [Sept. 22, 1969.] [19] p. 4° [Issued with perforations. Includes transmittal notice 38.] * Paper, \$14.00 (including basic manual and supplementary material for an indefinite period); \$4.00 additional for foreign mailing.
- 17086 Programs of interest to low-income people, HUD [Sept. 1969.] [8] p. narrow 8° (HUD-3-SP.) † ● Item 582 HH 1.2: L 95/2
- 17087 Programs of interest to planners, HUD. [Sept. 1969.] [8] p. narrow 8° ([HUD-1-SP.]) † ● Item 582 HH 1.2: P 94/9
- 17088 The Races, policy or deadlock, by Samuel J. Simmons, Assistant Secretary for Equal Opportunity, National Conference, National Association of Housing & Redevelopment Officials, Bal Harbour, Fla., Oct. 14, 1969. [1]+12 p. 4° † HH 1.7: Si 4/4
- 17089 Remarks of Lester P. Condon, Assistant Secretary for Administration, Department of Housing and Urban Development, at annual dinner of Home Builders League of South Jersey, Cherry Hill, N.J., Oct. 15, 1969. [1]+7 p. 4° † HH 1.7: C 75/2
- 17090 Remarks prepared for delivery by Richard C. Van Dusen, Under Secretary, Department of Housing and Urban Development, before National Association of Housing and Redevelopment Officials, Bal Harbour, Fla., Oct. 15, 1969. [1]+17 p. 4° † HH 1.7: V 28/3
- 17091 Suburban programs for urban poor? address by Carlos C. Campbell, Special Assistant to Assistant Secretary for Metropolitan Development, Department of Housing and Urban Development, before International City Management Association, 55th annual conference, New York City, N.Y., Oct. 13, 1969. [1969.] [1]+9 p. 4° † HH 1.7: C 15
- 17092 [This entry number not used.]

INTERIOR DEPARTMENT Washington, DC 20240

NOTE.—Requests to the Interior Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

[Saline water] research and development progress report. (Office of Saline Water.) I 1.88:(nos.)

- 17093 445. Chemicals from sea water brines [with bibliography]; by Lee Leiserson and Paul C. Scott, Aug. 1969, iv+25 p. 4° * Paper, 35c. ● Item 604-A-1
- 17094 456. Study of deep-well disposal of decalcination brine waste [with bibliography]; by P. G. LeGros [and others], Dow Chemical Company, Midland, Mich., June 1969, xi+259 p. ill. 4° (Contract 14-01-0001-1691.) * Paper, \$2.00. L.C. card 79-604197

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

- 17095 463. Economic effects of using substandard quality water in Webster and other communities in South Dakota [with selected bibliography]; by Arthur J. Matson, Norman G. Giebnik and Louis C. Rentschler, Department of Economics, South Dakota State University, Brookings, S. Dak. Oct. 1969. xii+192 p. il. 4° * Paper, \$1.50. ● Item 604-A-1
L.C. card 79-604434
- 17096 464. In-situ formation of regenerative cellulose acetate membranes on porous tubular supports [with list of references]; by H. K. Bishop, G. Belfort and G. A. Guter, McDonnell Douglas Astronautics Company, Newport Beach, Calif. Oct. 1969. viii+67 p. il. 4° (Contract 14-01-0001-1760.) * Paper, 70c. ● Item 604-A-1
- 17097 472. Solubilities of some silicate minerals in saline waters [with list of references]; by A. Gene Collins, Bartlesville Petroleum Research Center, Bureau of Mines, U.S. Department of Interior, Bartlesville, Okla. Aug. 1969. ix+27 p. il. 4° (Agreement 14-01-0001-1146.) * Paper, \$45c. ● Item 604-A-1
- 17098 476. Axial dispersion constant-pattern kinetics of ion-exchange and adsorption columns [with list of literature cited]; by Robert E. Quillec, and Theodore Vermeulen, University of California at Berkeley, Berkeley, Calif. Sept. 1969. iv+95 p. il. 4° (Grant 14-01-0001-1689.) * Paper, \$1.00. ● Item 604-A-1
- 17099 477. Study of design-optimization procedure for ion-exchange and adsorption columns [with list of references]; by S. Pancharatnam, G. Klein, and T. Vermeulen, University of California at Berkeley, Berkeley, Calif. Sept. 1969. ix+113 p. il. 4° (Grant 14-01-0001-1698.) * Paper, \$1.25. ● Item 604-A-1

INTERNAL REVENUE SERVICE, Treasury Dept.
Washington, DC 20224

- 17100 Effective Revenue writing 1; [prepared by Lucile B. Spurlock and Luthera B. Dawson]. [1969.] v+261 p. (Training 9960-12 (8-69).) [Basic course designed to give brief, practical review of writing principles, grammar, and punctuation.] * Paper, \$1.00. ● Item 956-A
L.C. card 70-604331 T 22.19/2: W 93/no.1/969
- 17101 Legal career in Federal taxation. [1969.] [11] p. il. narrow f° (Publication 673 (8-69); Chief Counsel's Office.) † ● Item 956
T 22.2: C 18/3/969
- 17102 Looseleaf regulations system: Service 5, Procedure and administration, transmittal 50, Oct. 17, 1969. [50] p. 4° ● Item 961
T 22.19/3: 5/trans.50
- NOTE.—Service 5 consists of pts. 301-303 and 601 of title 26 of Code of Federal regulations. It is sold on a subscription basis by the Superintendent of Documents, \$8.00 (including basic material and supplements issued irregularly for approximately 3 years); \$2.00 additional for foreign mailing.
- Title 26, Code of Federal regulations, pt.
- 17103 198. Production of volatile fruit-flavor concentrates, Revised Aug. 1, 1969. [1969.] cover title, 16 p. (Publication 189.) * Paper, 15c. ● Item 961
T 22.17/3: 198/3

INTERNATIONAL COMMERCE BUREAU, Commerce Dept.
Washington, DC 20230

- 17104 Address by Harold B. Scott, Director, Bureau of International Commerce, Department of Commerce, prepared for delivery at 43rd annual convention of Propeller Club of United States, Savannah, Ga., Oct. 15, 1969. [1969.] 8 p. 4° † C 42.18: Sco 3
- Foreign economic trends and their implications for United States, ET (series). * Paper, \$15.00 a yr., \$6.00 additional for foreign mailing. ● Item 231-I C 42.30: (nos.)
- 17105 69-102. Italy. Sept. 15, 1969. 12 p. 4° (American Embassy, Rome.) [Semi-annual.]
- 17106 69-106. Turkey. Sept. 15, 1969. 12 p. il. 4° (American Embassy, Ankara.) [Semiannual.]
- 17107 69-107. Brazil. Sept. 12, 1969. 11+[1] p. il. 4° [Semiannual.]
- 17108 69-109. Haiti. Sept. 1, 1969. 8 p. 4° (American Embassy, Port-au-Prince.) [Annual.]
- 17109 69-110. Democratic Republic of Congo. Sept. 15, 1969. 12 p. 4° (American Embassy, Kinshasa.) [Semiannual.]
- 17110 69-111. Yugoslavia. Sept. 15, 1969. 8 p. 4° [Semiannual.]
- 17111 69-112. Paraguay. Sept. 15, 1969. 11 p. il. 4° [Semiannual.]

GOVERNMENT PUBLICATIONS

Foreign economic trends and their implications for United States, ET (series)—Continued

- 17112 69-113. Dahomey. Oct. 1, 1969. 6 + [1] p. il. 4° (American Embassy, Cotonou.) [Annual.]
- 17113 69-114. Iran. Oct. 1, 1969. 11 p. 4° (American Embassy, Tehran.) [Semiannual.]
- 17114 69-115. Korea. Sept. 29, 1969. 14 p. il. 4° [Semiannual.]
- 17115 69-117. Netherlands. Oct. 1, 1969. 12 p. 4° (American Embassy, The Hague.) [Semiannual.]
- 17116 69-118. Panama. Oct. 1, 1969. 10 + [1] p. il. 4° [Semiannual.]
- 17117 69-121. Somali Republic. Oct. 15, 1969. 10 p. il. 4° (American Embassy, Mogadishio.) [Annual.]
- 17118 69-125. Switzerland. Oct. 10, 1969. 8 p. 4° (American Embassy, Bern.) [Semiannual.]
- 17119 69-126. Kuala Lumpur [Malaysia]. Oct. 17, 1969. 12 p. 4° (American Embassy, Kuala Lumpur.) [Semiannual.]
- 17120 69-127. Mexico. Oct. 1969. 11 p. il. 4° (American Embassy, Mexico City.) [Semiannual.]

INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, DC 20523

- 17121 Proceedings of Eastern African Conference on Nutrition and Child Feeding, Nairobi, Kenya, May 19-23, 1969 [with lists of reference], sponsored by Republic of Kenya and United States Agency for International Development with participation of Food and Agriculture Organization of United Nations, the United Nations Children's Fund, World Health Organization. [1969.] xxii+311 p. il. 4° * Paper, \$2.50. ● Item 900-C-2
L.C. card 75-604303 S 18.2: N 95/969

INTERSTATE COMMERCE COMMISSION Washington, DC 20423

- 17122 Decisions of Interstate Commerce Commission, Oct. 1966-May 1967. 1969. xxvii+975 p. (Interstate Commerce Commission reports, v. 103, Motor carrier cases.) * Cloth, \$6.00. ● Item 688
L.C. card 8-30656 IC 1 mot.S: 103

JOINT CHIEFS OF STAFF, Defense Dept. Washington, DC 20301

- 17123 Estimate of man's tolerance to direct effects of air blast [with list of references; by] I. G. Bowen, E. R. Fletcher [and] D. R. Richmond. Oct. 1968. 44 p. il. 4° (DASA-2113; [Contract] DA-49-146-XZ-372, project NWER, subtask MA 012.) [Prepared by Lovelace Foundation for Medical Education and Research for Defense Atomic Support Agency.] ‡
D 5.2: Ai 7/968

JOINT PUBLICATIONS RESEARCH SERVICE Washington, DC 20443

NOTE.—Titles of JPRS serial reports listed below were issued during the month, but were not cataloged separately. Φ (Price upon application).

- 17124-1 Communist Chinese scientific abstracts, no. 29; JPRS 49127.
- 17124-2 East European scientific abstracts: Bio-medical science, nos. 166-167; JPRS 49131, 49195.
- 17124-3 Herald of communications, v. 29, no. 8, 1969; JPRS 49141.
- 17124-4 Index of Le Monde, no. 106; JPRS 49108.
- 17124-5 Meteorology and hydrology, USSR, no. 9, 1969; JPRS 49192.
- 17124-6 Soviet public health, USSR, v. 28, no. 7; JPRS 49160.
- 17124-7 Translations from Kommunist, nos. 13-14; JPRS 49179, 49213.
- 17124-8 Translations on Africa, nos. 827-832; JPRS 49098, 49110, 49138, 49145, 49191, 49218.
- 17124-9 Translations on Communist China, nos. 75-79; JPRS 49106, 49112, 49146, 49187, 49203.
- 17124-10 Translations on Eastern Europe: Economic and industrial affairs, nos. 201-211; JPRS 49091, 49104, 49109, 49124, 49137, 49156, 49171, 49182, 49190, 49205, 49222.
- 17124-11 Translations on Eastern Europe: Political, sociological, and military affairs, nos. 147-154; JPRS 49096, 49121, 49123, 49139, 49147, 49166, 49180, 49206.
- 17124-12 Translations on Eastern Europe: Scientific affairs, nos. 79-83; JPRS 49105, 49155, 49175, 49200, 49220.
- 17124-13 Translations on Latin America, nos. 245-254; JPRS 49097, 49102, 49115, 49125, 49154, 49165, 49174, 49189, 49204, 49215.

*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 17124-14 Translations on Mongolia, nos. 208-211; JPRS 49094, 49188, 49208, 49219.
 17124-15 Translations on Near East, nos. 394-398; JPRS 49107, 49129, 49148, 49194, 49217.
 17124-16 Translations on North Korea, nos. 132-136; JPRS 49093, 49111, 49150, 49157, 49163.
 17124-17 Translations on North Vietnam, nos. 619-624; JPRS 49119, 49128, 49133, 49177, 49185, 49216.
 17124-18 Translations on south and east Asia, nos. 233-235; JPRS 49159, 49197, 49221.
 17124-19 Translations on USSR agriculture, nos. 348-354; JPRS 49092, 49120, 49136, 49140, 49173, 49202, 49207.
 17124-20 Translations on USSR economic affairs, nos. 59-62; JPRS 49114, 49143, 49168, 49172.
 17124-21 Translations on USSR industrial affairs, nos. 27-30; JPRS 49099, 49122, 49162, 49193.
 17124-22 Translations on USSR military affairs, nos. 556-560; JPRS 49116, 49144, 49164, 49186, 49199.
 17124-23 Translations on USSR political and sociological affairs, nos. 33-35; JPRS 49118, 49169, 49212.
 17124-24 Translations on USSR resources, nos. 49-50; JPRS 49117, 49178.
 17124-25 Translations on USSR trade and services, nos. 60-65; JPRS 49093, 49103, 49134, 49135, 49161, 49198.
 17124-26 Translations on Western Europe, nos. 73-77; JPRS 49113, 49126, 49149, 49181, 49201.
 17124-27 USSR scientific abstracts: Bio-medical science, no. 77; JPRS 49142.
 17124-28 USSR scientific abstracts: Chemistry, no. 77; JPRS 49214.
 17124-29 USSR scientific abstracts: Materials science and metallurgy, no. 66; JPRS 49196.
 17124-30 USSR scientific abstracts: Mathematics and Physics, no. 200; JPRS 49176.
 17124-31 Vestnik of the USSR Academy of Medical Sciences, no. 9, 1969; JPRS 49183.
 17124-32 Vestnik of USSR Academy of Sciences, v. 39, no. 8; JPRS 49158.

JPRS (series).

Y 3.J 66: 13/(nos.)

- 17125 49100. Bilingual study of technical translation, USSR [with bibliography]; by A. L. Pumpyansky, Oct. 22, 1969, cover title, 13 p. 4° [From Nauchno-tekhnicheskaya informatsiya, no. 7, 1969.] Φ Paper, \$3.00.
 17126 49101. Medicine of near future, USSR; by V. Koyanov, Oct. 22, 1969, cover title, 8 p. 4° [From Meditsinskaya gazeta, June 24, 1969.] Φ Paper, \$3.00.
 17127 49130. All-Union symposium on systems research, USSR; by M. D. Akhundov, et al, Oct. 27, 1969, cover title, 6 p. 4° [From Voprosy filosofii, no. 8, 1969.] Φ Paper, \$3.00.
 17128 49132. Georgian SSR scientific achievements lauded, USSR; by M. Traskunov, et al, Oct. 27, 1969, cover title, 15 p. 4° [From Zarya vostoka, Sept. 17, 1969.] Φ Paper, \$3.00.
 17129 49151. Status and future of orbital stations; by A. Vasil'yev, Oct. 28, 1969, cover title, 6 p. 4° [From Krylya rodniny, no. 8, Aug. 1969.] Φ Paper, \$3.00.
 17130 49152. Party unit's role in research institute praised; by S. Arkamov, Oct. 28, 1969, cover title, 6 p. 4° [From Partiy'naya zhizn', no. 8, Aug. 1969.] Φ Paper, \$3.00.
 17131 49153. Cybernetics and regulation theory USSR [articles with bibliographies], Oct. 28, 1969, cover title, a+16 p. 4° [From Doklady Akademii Nauk SSSR, Moscow, v. 187, no. 6, 1969.] Φ Paper, \$3.00.
 17132 49167. Instrument for studying cosmic radiation at altitudes of 200-400 km [with bibliography]; by V. L. Madnyev, et al, Oct. 30, 1969, cover title, 6 p. il. 4° [From Vestnik moskovskogo universiteta, seriya fizika i astronomiya, no. 4, 1969.] Φ Paper, \$3.00.
 17133 49184. My occupation, driller [with bibliography]; by S. M. Petukhov, et al, Oct. 31, 1969, cover title, a-b+43 p. il. 4° [From Izdatel'stvo Literatury po Stroitel'stvu, 1968.] Φ Paper, \$3.00.
 17134 49209. Computers used to describe fishing grounds; by O. A. Dubovskoy, Nov. 6, 1969, cover title, 5 p. il. 4° [From Rybnoye khozyaystvo, Aug. 1969.] Φ Paper, \$3.00.
 17135 49210. Articles on practical cybernetics, Nov. 6, 1969, cover title, a+50 p. il. 4° [From Kibernetika ozhidayemaya i kibernetika neozhidayemaya, by A. I. Berg, et al., Moscow, 1968.] Φ Paper, \$3.00.
 17136 49211. Simulation of complex systems; by N. P. Buslenko, Nov. 6, 1969, cover title, a+52 p. 4° [From Modelirovaniye Slozhnykh Sistem, Moscow, 1968.] Φ Paper, \$3.00.

LABOR DEPARTMENT Washington, DC 20210

- 17137 Address by Secretary of Labor, George P. Shultz, before Assembly of Governmental Employees, Detroit, Mich., Oct. 17, 1969, 9 leaves. 4° †
 L1.13: Sh 9/9
 17138 Do you want a job? [1969.] [1]+8 p. il. 12° (Manpower Administration.)
 * Paper, 10c. ● Item 745 L1.2: J 57/4
 17139 Introducing JOBS '70. [1969.] cover title, [15] p. il. oblong 24° (Manpower Administration.) † ● Item 745 L1.2: J 57/6

ΦFor Sale by Clearinghouse, U.S. Department of
 Commerce, Springfield, Va. 22151
 ●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

JCH (series). † ● Item 857-H-1

L 1.58:(nos.)

- 17140 343.3. Job Corps placement manual. 1969. cover title, [4]+81 p. 4° (Manpower Administration.) [Cancels all previous placement instructions. Issued in looseleaf form.]
- 17141 343.16. Vocational course offerings for Job Corps men's centers. [1969.] [37] p. 4° (Manpower Administration.)

LABOR STANDARDS BUREAU, Labor Dept. Washington, DC 20210

Bulletins. ● Item 763

L 16.3:(nos.)

- 17142 239. Mechanics for safety man. Revised 1969. [1969.] cover title, iii+21 p. ll. (Safety in industry; Mechanical and physical hazards series.) * Paper, 25c.
- 17143 247. Fundamentals of accident prevention. Revised 1969. [1969.] cover title, [2]+14 p. (Safety in industry; Organization and administration series.) * Paper, 15c.
- 17144 256. Static electricity [with bibliography]. Revised 1969. [1969.] cover title, iii+20 p. ll. (Safety in industry; Mechanical and physical hazards series.) * Paper, 20c.
- 17145 259. Use and handling of compressed gases [with list of references]. Revised 1969. [1969.] cover title, iv+30 p. (Safety in industry; Environmental and chemical hazards series.) * Paper, 25c.
- 17146 265. Inorganic acids [with list of references]. Revised 1969. [1969.] cover title, iii+27 p. (Safety in industry; Environmental and chemical hazards series.) * Paper, 25c.

Construction industry safe work guide, Department of Labor safety training programs SWG-LS (series). † ● Item 764-C

L 16.54/2:(nos.)

- 17147 512. Unloading steel beams. [1969.] [2] p. ll. 4° (OOS 9.68.)
- 17148 516. Power handsaw. [1969.] [1] p. ll. 4° (OOS 9.68.)
- 17149 517. Setting up sheet piles. [1969.] [2] p. ll. 4° (OOS 9.68.)
- 17150 525. Construction supervisors. [1969.] [4] p. ll. 4° (OOS 6.69.)
- 17151 526. Masons and mason tenders. [1969.] [4] p. ll. 4° (OOS 6.69.)

Occupational safety aid, Department of Labor safety training programs LS (series). ● Item 765-G

L 16.49:(nos.)

- 17152 316. Safeguarding machinery. [1969.] [8] p. ll. 4° (OOS 2.69.) * Paper, 10c.
- 17153 522. Safety program planning. [1969.] [3] p. ll. 4° (OOS 6.69.) * Paper, 10c.

LABOR STATISTICS BUREAU, Labor Dept. Washington, DC 20210

Bulletins. ● Item 768

L 2.3:(nos.)

- 17154 1625-86. Area wage survey: Allentown-Bethlehem-Easton, Pa.-N.J., metropolitan area. May 1969. Oct. 1969. iii+16 p. oblong 8° * Paper, 30c. L.C. card L66-102
- 17155 1633. National emergency disputes, labor management relations (Taft-Hartley) act 1967-68. Sept. 1969. vi+90 p. 4° * Paper, \$1.00. L.C. card L61-30
- 17156 Major programs 1969, Bureau of Labor Statistics. May 1969. viii+52 p. 4° † ● Item 769-E
L.C. card L 60-83

L 2.87: 969

Monthly labor review, reprint.

- 17157 2635. Report on wage developments in manufacturing, 1968: [by] John Kinyon. [1969.] [16] p. 4° [From Aug. 1969 issue.] † L 2.6/a: 2635

LAKE SURVEY (Army), Defense Dept. 630 Federal Bldg., Detroit, MI 48226

Basic data report BD (series).

- 17158 5-5. Great Lakes ice cover, winter 1962-63 and 1963-64; by Donald R. Rondy. June 1969. cover title, [16] p. ll. 37 pl. 4° † Department of the Army, Lake Survey District, Corps of Engineers, 630 Federal Building, Detroit, MI 48226 D 103.211: 5-5
- 17159 Supplement 6, Oct. 1969, corrections and additions to 1969 Great Lakes pilot. [1969.] [2] p.+13 leaves. [Bearings are true and distances are expressed in statute miles. Supplements information given upon charts published by Lake Survey.] † U.S. Army Engineer District, Lake Survey, Corps of Engineers, 630 Federal Building, Detroit, MI 48226 L.C. card 6-7112 D 103.203: 969/supp.6

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

LAND MANAGEMENT BUREAU, Interior Dept.
Washington, DC 20240

- 17160 Ephemeris of sun, Polaris, and other selected stars with companion data and tables for [calendar] year 1970; prepared by Nautical Almanac Office, United States Naval Observatory. 61st edition. 1969. ii+30 p. 1 pl. [Supplement to Manual of instructions for survey of public lands of United States.] * Paper, 35c. ● Item 630
L.C. card 10-35913 I 53.8: 970

Technical bulletin.

- 17161 4. Placer examination, principles and practice [with lists of references cited: by John H. Wells]. July 1969. cover title, vii+155 p. il. 4° * Paper, \$1.50.
● Item 634-B
L.C. card 79-604371 I 53.3/2: 4

MARINE CORPS (Navy), Defense Dept.
Washington, DC 20350

Fleet Marine Force manual FMFM (series). ● Item 384

D 214.9/4: (nos.)

- 17162 1-3B. Sniping [with list of references]. [Aug. 5, 1969.] cover title, [4]+ix+264 p. il. 16° †
17163 7-3. Air support [with list of references]. [1969.] cover title [6]+viii+230 p. il. 4° [Issued in looseleaf form. Supersedes FMFM 7-3, Feb. 10, 1966.] * Paper, \$2.00.

MARITIME ADMINISTRATION, Commerce Dept.
Washington, DC 20548

MA SP (series). †

C 39.210/2: 69-(nos.)

- 17164 69-15. Remarks by A. E. Gibson, Maritime Administrator, Department of Commerce, at presentation of 1969 American Merchant Marine Seamanship Trophy to S.S. African Star, New York, N.Y., Oct. 10, 1969. 1969. 2 p. 4°
17165 69-17. Remarks by Robert J. Blackwell, Deputy Maritime Administrator, Department of Commerce, before annual southern regional meeting of Delta Nu Alpha Transportation Fraternity, Norfolk, Va., Oct. 30, 1969. 1969. 5 p. 4°
17166 Transfer and sale of U.S. ships to aliens. [Oct. 1969.] 28 p. narrow 8° †
C 39.202: Sh 64/13

MILITARY HISTORY, OFFICE OF CHIEF OF (Army), Defense Dept.
Washington, DC 20315

- 17167 Reproduction of paintings, U.S. Army art collection, furnished by Army Crafts Program, Special Services Division, Army Education and Morale Support Directorate, Office of Adjutant General, Department of Army. [1969.] 10 colored posters, each 17 x 24 in. or 24 x 17 in. [Issued in envelope for mailing purposes.] * Paper, \$2.75 per set. D 114.13: P 16

MINES BUREAU, Interior Dept.
Washington, DC 20240

- 17168 Abrasive materials; [by J. Robert Wells]. [1969.] [2]+12 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: Ab 84/968
17169 Cement; [by John R. Lewis]. [1969.] [2]+25 p. [Preprint from Minerals yearbook, 1968.] * Paper, 20c. I 28.37/a: C 332/968
17170 Coal, Pennsylvania anthracite; [by Walter C. Lorenz]. [1969.] [2]+25 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 20c. I 28.37/a: An 86/2/968
17171 Fluorspar and cryolite; [by J. Robert Wells]. [1969.] [2]+8 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: F 673/968

♠For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Information circulars.

I 28.27: (nos.)

- 17172 8417. Helium symposia proceedings in 1968—A hundred years of helium. Helium Applications Symposium, Washington, D.C., Oct. 23-24, 1968 [and] Helium Centennial Symposium, Atlantic City, N.J., Sept. 11, 1968 [papers, with lists of references]; compiled by Harold W. Lipper. [1969.] [3]+292 p. il. 4° * Paper, \$2.75. ● Item 637-A
L.C. card 77-604368
- 17173 8422. Mineral resource valuation for public policy; by Donald S. Colby and David B. Brooks. Errata. [1969.] [1] p. †
- 17174 8528. Heavy oil reservoirs in Arkansas [with list of references]; by W. G. Park, S. O. Wood, Jr., and M. Currales, Jr. [1969.] [2]+iv+162 p. il. 4° [Prepared under cooperative agreement with Arkansas Oil and Gas Commission.] * Paper, \$1.75. ● Item 637-A
L.C. card 72-604435
- 17175 Injury experience and worktime in mineral industries; [by Forrest T. Moyer]. [1969.] [2]+14 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: In 5/2/968
- 17176 Injury experience and worktime in mineral industries, 1967-68; prepared by staff of Office of Accident Analysis. Oct. 1969. 34 p. 4° (Mineral industry surveys; Safety in mineral industries, annual.) † Mines Bureau, Pittsburgh, PA 15213 I 28.113: 967-68
- 17177 Iron and steel scrap; [by John W. Thatcher]. [1969.] [2]+12 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a: Ir 6/2/968
- 17178 List of Bureau of Mines publications and articles, Jan. 1-Dec. 31, 1968, with subject and author index. 1969. cover title, iii+119 p. 4° (Special publication.) * Paper, \$1.25. ● Item 638
L.C. card 61-64978 I 28.5: 968
- Mineral industry health program technical progress report.
- 17179 19. Studies on control of respirable coal mine dust by ventilation; by D. S. King-erly [and others]. Oct. 1969. [3]+13 p. il. 4° † I 28.26/6: 19
- 17180 Mineral industry of Algeria; [by Edgar J. Gealy]. [1969.] [2]+7 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c
I 28.37/a 2: A1 35/968
- 17181 Mineral industry of Delaware; [by Samuel A. Gustavson]. [1969.] [2]+3 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: D 37/968
- 17182 Mineral industry of Finland; [by F. L. Klinger]. [1969.] [2]+10 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: F 496/968
- 17183 Mineral industry of Indonesia; [by Arthur F. Grube]. [1969.] [2]+10 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c
I 28.37/a 2: In 2/3/968
- 17184 Mineral Industry of Kuwait, Kuwait Saudi Arabia Neutral Zone, and Saudi Arabia; [by David A. Carleton]. [1969.] [2]+10 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: K 969/2/968
- 17185 Mineral industry of Maine; [by Robert E. Ela]. [1969.] [2]+6 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: M 28/968
- 17186 Mineral industry of Netherlands; [by Columbus R. Gentile]. [1969.] [2]+16 p. [Preprint from Minerals yearbook, 1968.] * Paper, 15c. I 28.37/a 2: N 382/2/968
- 17187 Mineral industry of New Hampshire; [by William Cochran]. [1969.] [2]+5 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c. I 28.37/a 2: N 42 h/968
- 17188 Mineral industry of other Far Eastern and South Asian areas; [by Staff, Division of International Activities]. [1969.] [2]+18 p. [Preprint from Minerals yearbook, 1968.] * Paper, 15c I 28.37/a 2: F 22 e/968

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

DECEMBER 1969

- 17189 Mineral industry of Rhode Island; [by Arthur Sykes Lees]. [1969.] [2]+3 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c.
I 28.37/a 2: R 34/968
- 17190 Mineral industry of South Carolina; [by Robert C. Johnson and Henry S. Johnson, jr.]. [1969.] [2]+8 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 10c.
I 28.37/a 2: So 8 c/968
- 17191 Pumice; [by Carl L. Bieniewski]. [1969.] [2]+5 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 10c.
I 28.37/a: P 968/968
- 17192 Silicon; [by John W. Thatcher]. [1969.] [2]+5 p. [Preprint from Minerals yearbook, 1968.] * Paper, 10c.
I 28.37/a: Si 34/968
- 17193 Silver; [by J. Patrick Ryan]. [1969.] [2]+16 p. il. [Preprint from Minerals yearbook, 1968.] * Paper, 15c.
I 28.37/a: Si 39/3/968

MOTOR CARRIER SAFETY BUREAU, Transportation Dept. Washington, DC 20591

- 17194 Analysis of accident reports involving fire, year 1968. [1969.] [3]+15 p. 4° †
TD 2.312/2: 968-2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, DC 20546

- 17195 America's next decades in space, report for Space Task Group. Sept. 1969. [2] leaves+84 p. il. 4° † • Item S30-C
L.C. card 76-603822 NAS 1.2: Sp 1/18
- NASA contractor report CR (series). NAS 1.26:(nos.)
- 17196 1360. Sequential processing techniques for trajectory estimation [with list of references]; by C. G. Pfeiffer [and others]. Oct. 1969. cover title, viii+127 p. il. 4° [Prepared under contract NAS 2-4553 by TRW Systems System Group, Redondo Beach, Calif.] * Paper, \$3.00.
- 17197 1372. Biochemical and metabolic effects of 6-month exposure of small animals to helium-oxygen atmosphere [with list of references]; by Robert W. Hamilton, jr. [and others]. Oct. 1969. cover title, [4]+83+[1]+iii p. il. 4° [Prepared under contract NAS 2-3900 for Union Carbide Corporation, Linde Division Research Laboratory, Tonawanda, N.Y.] † Paper, \$3.00.
L.C. card 73-604367
- 17198 1389. Characteristics of tactile information channel [with bibliography]; by J. C. Bliss, J. W. Hill, and B. M. Wilber. Oct. 1969. cover title, xv+168 p. il. 4° [Prepared under contract NAS 2-4582 by Stanford Research Institute, Menlo Park, Calif.] † Paper, \$3.00.
L.C. card 76-604199
- 17199 1395. Analyses and measurements of blood samples; by Eric Reiss. Oct. 1969. cover title, [1]+15 p. il. 4° [Prepared under contract NAS 2-4757 by Michael Reese Hospital and Medical Center, Chicago, Ill.] † Paper, \$3.00.
- 17200 1422. Laboratory oculometer [with list of references]; by John Merchant. Oct. 1969. cover title, vi+94 p. il. 4° [Prepared under contract NAS 12-531 by Honeywell Radiation Center, Lexington, Mass., for Electronics Research Center.] † Paper, \$3.00.
L.C. card 70-604201
- 17201 1426. Flight test results of trailing edge flap designed for direct-lift control [with list of references]; by Charles R. Taylor, jr. Oct. 1969. cover title, vi+80 p. il. 4° [Prepared under contract NAS 2-4200 by Boeing Company, Seattle, Wash.] † Paper, \$3.00.
- 17202 1427. Flight investigation of systems developed for reducing pilot workload and improving tracking accuracy during noise-abatement landing approaches [with list of references]; by Clarence C. Flora, Gerhard K. L. Kriebbaum, and Wayne Willich. Oct. 1969. cover title, viii+64 p. il. 4° [Prepared under contract NAS 2-4200 by Boeing Company, Seattle, Wash.] † Paper, \$3.00.
- 17203 1437. Radiation resistance of cylindrical shells [with list of references]; by Charles J. Runkle and Franklin D. Hart. Oct. 1969. cover title, ix+120 p. il. 4° [Prepared under grant NGR-34-002-035 by North Carolina State University, Raleigh, N.C.] † Paper, \$3.00.
L.C. card 79-604233
- 17204 1441. Simplified procedures for estimating flapwise bending moments on helicopter rotor blades, Pt. 2. Tables; by Anton J. Landgrebe. Oct. 1969. cover title, iii+90 p. 4° [Prepared under contract NAS 1-7880 by United Aircraft Research Laboratories, East Hartford, Conn.] † Paper, \$3.00.

GOVERNMENT PUBLICATIONS

NASA contractor report CR (series)—Continued

- 17205 1442. Study of 2 GHz electromagnetic wave propagation over optical paths in 3 geographical regions of United States [with bibliographies]; by J. O. Hebert, Jr. [and others]. Oct. 1969. cover title, ix+11+126 p. ll. 4° [Prepared under grant NOR 25-001-007 by Department of Electrical Engineering, Mississippi State University, State College, Miss.] Φ Paper, \$3.00.
L.C. card 77-604203
- 17206 1444. Axisymmetric and cylindrical isostablioids [with list of references]; by Peter R. Proiswerk, John M. Hedgcock, and Hans U. Schnerch. Oct. 1969. cover title, v+47 p. ll. 4° [Prepared under contract NAS 7-427 by Astro Research Corporation, Santa Barbara, Calif.] Φ Paper, \$3.00.
L.C. card 74-604221
- 17207 1447. Research on metallurgical characteristics and performance of materials used for silding electrical contacts [with list of references]; by W. H. Abbott and E. S. Bartlett. Oct. 1969. cover title, v+57 p. ll. 4° [Prepared under contract NAS 12-657 by Battelle Memorial Institute, Columbus, Ohio.] Φ Paper, \$3.00.
- 17208 1448. Theoretical study of vortex shedding from bodies of revolution undergoing coning motion [with list of references]; by Gary D. Kuhn, Selden B. Spangler, and Jack N. Nielsen. Oct. 1969. cover title, [1]+60 p. ll. 4° [Prepared under contract NAS 2-4765. Nielsen Engineering & Research Inc. Palo Alto, Calif. Issued by originator as report NEAR TR-14.] Φ Paper, \$3.00.
- 17209 1449. Non-linear longitudinal dynamics of orbital lifting vehicle [with list of references]; by Nguyen X. Vinh and Arthur J. Dobrzelecki. Oct. 1969. cover title, vi+32 p. ll. 4° [Prepared under contract NASr 54(06) by University of Michigan, Ann Arbor, Mich.] Φ Paper, \$3.00.
- 17210 1467. Numerical calculation of viscous compressible fluid flow around oscillating rigid cylinder [with list of references]; by John G. Trullo and Leonard Walitt. Oct. 1969. cover title, iii+74 p. ll. 4° [Prepared under contract NAS 8-18034 by Applied Theory, Inc., Santa Monica, Calif.] Φ Paper, \$3.00.
- 17211 1472. Effect of jet temperature on jet and pure tone noise radiation [with list of references]; by Harry E. Plumblee, George A. Wynne, and Ben T. Zinn. Nov. 1969. cover title, iii+72 p. ll. 4° [Prepared under contract NAS 1-8443 by Lockheed-Georgia Company, Marietta, GA.] Φ Paper, \$3.00.
- 17212 1474. Superconductive 7.2-Tesla 4-magnet assembly; by E. R. Schrader and R. Del Grosso. Oct. 1969. cover title, viii+72 p. ll. 4° [Prepared under contract NAS 3-7928 by RCA Electronic Components, Harrison, N.J.] Φ Paper, \$3.00.

NASA EP (series).

- 17213 64. Space resources for teachers, space science, guide outlining understandings, fundamental concepts, and activities [with bibliographies]. 1969. 144 p. ll. 4° [Developed at Columbia University under auspices of Office of Director of Summer Session, in cooperation with Goddard Institute for Space Studies.] * Cloth lined paper, \$2.00. \bullet Item 830-G NAS 1.19: 64

NASA SP (series).

NAS 1.21: (nos.)

- 17214 196. NASA Science and Technology Advisory Committee for Manned Space Flight. proceedings of winter study on uses of manned space flight, 1975-85. [conference held at La Jolla, Calif. Dec. 6-9, 1968]. 1969. (Scientific and Technical Information Division. Office of Technology Utilization.) Φ Paper, \$3.00 per set of 2 volumes.
v. 1. Proceedings, v+40 p.
v. 2. Appendixes [with bibliographies]. vii+173 p. ll.
L.C. card 76-601513
- 17215 210. Electric propulsion mission analysis, terminology & nomenclature; prepared by NASA Office of Advanced Research and Technology, Nuclear Electric Propulsion Systems Analysis Task Group. 1969. v+10 p. Φ Paper, \$3.00.
L.C. card 79-604355
- 17216 216. Compressible turbulent boundary layers, symposium held at Langley Research Center, Hampton, Va., Dec. 10-11, 1968 [articles, with lists of references]. 1969. vi+567 p. ll. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) Φ Paper, \$3.00.
L.C. card 75-604362

NASA technical note TN (series).

NAS 1-14: D-(nos.)

- 17217 D-5212. Errata. Noise in axisymmetric convergent electron beams; by H. G. Kosmahl and L. U. Albers, May 1969. [Oct. 3, 1969.] [2] p. 4° \dagger
- 17218 D-5341. Method of characteristics for steady 3-dimensional supersonic flow with application to inclined bodies of revolution [with list of references]; by John V. Rakich. Oct. 1969. cover report, iv+57 p. ll. 4° Φ Paper, \$3.00.
- 17219 D-5399. Entry aerodynamics at lunar return conditions obtained from flight of Apollo 4 (AS-501) [with list of references]; by Ernest R. Hillje. Oct. 1969. cover title, vii+72 p. ll. 4° Φ Paper, \$3.00
- 17220 D-5419. Development of 3-dimensional pressure-distribution functions for lifting surfaces with trailing-edge controls based on integral equation for subsonic flow [with list of references]; by Alfredo Navarro Crespo and Herbert J. Cunningham. Oct. 1969. cover title, [1]+73 p. ll. 4° Φ Paper, \$3.00.

*For Sale by Superintendent of Documents

\dagger Distribution Made by Issuing Office

Φ Official Use. Not Available

- 17221 D-5426. Rotating space station stabilization criteria for artificial gravity [with list of references]; by Carl A. Larson. Oct. 1969. cover title, vi+40 p. il. 4° Φ Paper, \$3.00.
- 17222 D-5439. Final report, Saturn V, S-IVB panel flutter qualification test [with list of references]; by J. J. Nichols. Oct. 1969. cover title, v+28 p. il. 4° Φ Paper, \$3.00.
- 17223 D-5443. Feasibility study of determining physical properties of Martian atmosphere by use of solar occultation as seen from artificial satellite [with list of references]; by H. Andrew Wallio and James R. Williams. Oct. 1969. cover title, [1]+63 p. il. 4° Φ Paper, \$3.00.
- 17224 D-5445. A navigation-aids identification decoder and display for general-aviation aircraft [with references]; by Charles W. Meissner, Jr., Oct. 1969. cover title, [1]+13 p. il. 4° Φ Paper, \$3.00.
- 17225 D-5457. Leak detection in hermetically sealed devices [with list of references]; by I. Litant. Oct. 1969. cover title, [1]+12 p. il. 4° Φ Paper, \$3.00.
- 17226 D-5468. Large-scale wind-tunnel investigation of M1-L lifting body with inflatable and rigid afterbody [with list of references]; by Kenneth W. Mort and Michael D. Falarski. Oct. 1969. cover title, 28 p. il. 4° Φ Paper, \$3.00.
- 17227 D-5472. Communication system design [with list of references]; by Louis A. Frasco. Oct. 1969. cover title, [1]+31 p. il. 4° Φ Paper, \$3.00. L.C. card 78-604281
- 17228 D-5475. Analysis of maximum range trajectories for rocket-propelled lunar flying vehicles in uniform gravitational field [with list of references]; by A. Gary Childs and Ernest S. Armstrong. Oct. 1969. cover title, [1]+44 p. il. 4° Φ Paper, \$3.00.
- 17229 D-5478. Application of human transfer functions to system analysis [with list of references]; by James J. Adams and Maxwell W. Goode. Oct. 1969. cover title, [1]+30 p. il. 4° Φ Paper, \$3.00. L.C. card 72-604198
- 17230 D-5480. Method of integral relations solution for radiating, nonadiabatic, inviscid flow over blunt body [with list of references]; by John T. Suttles. Oct. 1969. cover title, [1]+59 p. il. 4° Φ Paper, \$3.00.
- 17231 D-5481. Pressure distribution of large semi-span tilting wing with 0.4-diameter-chord, single-slotted flap, and single propeller 0.22 chord below wing [with list of references]; by Marvin P. Fink and Charles C. Smith, Jr. Oct. 1969. cover title, [1]+379 p. il. 4° Φ Paper, \$3.00.
- 17232 D-5483. Evaluation of 3 oxidation-resistant alloy claddings for IN 100 and WI 52 superalloys [with list of references]; by Michael A. Gedwill. Oct. 1969. cover title, [1]+34 p. il. 4° Φ Paper, \$3.00.
- 17233 D-5485. Airbreathing propulsion system testing using sweep frequency techniques [with list of references]; by Daniel I. Drain, William M. Burton, and Francis J. Paulovich. Oct. 1969. cover title, [1]+32 p. il. 4° Φ Paper, \$3.00.
- 17234 D-5486. Calculated interaction energy and dipole moment in collisions of 2 hydrogen molecules [with list of references]; by R. W. Patch. Oct. 1969. cover title, iii+42 p. il. 4° Φ Paper, \$3.00.
- 17235 D-5487. Analysis and experiments with pulsed neutron source for unreflected solution reactor up to \$50 shutdown [with list of references]; by Daniel Fleno [and others]. Oct. 1969. cover title, iii+57 p. il. 4° Φ Paper, \$3.00.
- 17236 D-5488. Magnetothermal oscillations in pressure-annealed, pyrolytic graphite [with list of references]; by Dennis J. Flood. Oct. 1969. cover title, [1]+22 p. il. 4° Φ Paper, \$3.00.
- 17237 D-5489. Calculation of thermal-fatigue based on accumulated creep damage [with list of references]; by David A. Spera. Oct. 1969. cover title [1]+37 p. il. 4° Φ Paper, \$3.00.
- 17238 D-5491. Flight evaluation of tip-turbine-driven fans for lateral control in hovering VTOL aircraft [with list of references]; by L. Stewart Rolls and Ronald M. Gerdes. Oct. 1969. cover title, [1]+16 p. il. 4° Φ Paper, \$3.00.
- 17239 D-5492. Experimental investigation of momentum transfer associated with impact into thin aluminum targets [with list of references]; by C. Robert Nysmith and B. Pat Denardo. Oct. 1969. cover title, [1]+16 p. il. 4° Φ Paper, \$3.00.
- 17240 D-5493. Dislocation structures in single crystal tungsten and tungsten alloys [with list of references]; by Joseph R. Stephens. Oct. 1969. cover title, [1]+21 p. il. 4° Φ Paper, \$3.00.
- 17241 D-5494. Pulse response curves of conventional low-pass filters [with list of references]; by William D. Stanley and Doris M. Higgins. Oct. 1969. cover title, [1]+114 p. il. 4° Φ Paper, \$3.00.
- 17242 D-5495. Limb radiance calculation approach for model atmospheres containing horizontal gradients of temperature and pressure [with list of references]; by Richard E. Davis. Oct. 1969. cover title, [1]+36 p. il. 4° Φ Paper, \$3.00.
- 17243 D-5497. Operational limitations in flying noise-abatement approaches [with list of references]; by Richard H. Sawyer and William T. Shaefer, Jr. Oct. 1969. cover title, [1]+42 p. il. 4° Φ Paper, \$3.00.
- 17244 D-5499. Supersonic lifting capabilities of large-angle cones [with list of references]; by James F. Campbell and Dorothy T. Howell. Oct. 1969. cover title, [1]+65 p. il. 4° Φ Paper, \$3.00.
- 17245 D-5500. Free-stream electron concentration in arc-heated wind tunnel and correlation of Langmuir probe and microwave interferometer measurements [with list of references]; by Roy J. Duckett and W. Linwood Jones, Jr. Oct. 1969. cover title, [1]+38 p. il. 4° Φ Paper, \$3.00.

GOVERNMENT PUBLICATIONS

NASA technical note TN—Continued

- 17246 D-5501. Injection of an attached inviscid jet at oblique angle to moving stream [with list of references]; by Marvin E. Goldstein and Willie Braun. Oct. 1969. cover title, [1]+39 p. il. 4° Φ Paper, \$3.00.
- 17247 D-5503. Electrochemical behavior of aluminum electrode in molten salt electrolytes [with list of references]; by Betty S. Del Duca. Oct. 1969. cover title, [1]+29 p. il. 4° Φ Paper, \$3.00.
- 17248 D-5504. Solubilities of molybdenum and tungsten in liquid potassium [with list of references]; by Stephan Stecura. Oct. 1969. cover title, [1]+13 p. il. 4° Φ Paper, \$3.00.
- 17249 D-5506. Effects of 3 outlets-annulus area blockage configurations on performance of 20-inch (50.8-cm) axial-flow compressor rotor [with list of references]; by Walter M. Osborn and George W. Lewis, jr. Oct. 1969. cover title, [1]+23 p. il. 4° Φ Paper, \$3.00.
- 17250 D-5509. Application of pressurized liquid nitrogen inside parametric-amplifier structures for input-noise-temperature improvement [with list of references]; by Hans-Juergen C. Blume. Oct. 1969. cover title, [1]+30 p. il. 4° Φ Paper, \$3.00.
- 17251 D-5510. Hot-salt stress-corrosion of a titanium alloy under simulated turbine-engine compressor environment [with list of references]; by Hugh R. Gray and James R. Johnston. Oct. 1969. cover title, [1]+34 p. il. 4° Φ Paper, \$3.00.
- 17252 D-5519. Helium pressurization systems for liquid-methane fuel in supersonic transports [with list of references]; by Joseph D. Eisenberg. Oct. 1969. cover title iv+41 p. il. 4° Φ Paper, \$3.00.
- 17253 D-5520. Convective heat-transfer coefficients from solution of conduction equation for wall separating two fluids, one having oscillating temperature [with list of references]; by Ronald G. Huff. Oct. 1969. cover title, [1]+83 p. il. 4° Φ Paper, \$3.00.

NASA technical report R (series).

- 17254 324. Simplified molecular model for studying vibration-dissociation coupling in fluid flows [with list of references]; by Walter Albert Reinhardt. Sept. 1969. cover title, xxiii+312 p. il. 4° Φ Paper, \$3.00 NAS 1.12: 324

NASA technical translation TT (series).

NAS 1.13/2: F—(nos.)

- 17255 F-525. Concentration of matter and action of enzymes in coacervates [with list of references]; by T. N. Yevreinova. Oct. 1969. [1]+222 p. il. 4° [Translation of *Konsentrirovaniye veshchestv i deystviye fermentov v koatservatakh*. Nauka Press, Moscow, 1966.] Φ Paper, \$3.00. L.C. card 79-604268
- 17256 F-585. Shock waves in real gases [with list of references]; by T. V. Bazhenova [and others]. Oct. 1969. cover title, xiii+[2]+174 p. il. 4° [Nauka Press, Moscow, 1968.] Φ Paper, \$3.00. L.C. card 79-604363
- 17257 National aeronautics and space act of 1958, as amended and related legislation; prepared by Office of General Counsel. July 1, 1969. cover title, iii+43 p. [Includes legislative changes through June 30, 1969.] \dagger \bullet Item S30-W NAS 1.5: N 21

- 17258 On analysis of allocation of Federal budget resources as indicator of national goals and priorities, pt. 2 [Details]; by Leonard L. Lederman and Margaret L. Windus. Feb. 10, 1969. [334] p. il. 4° (Report BMI-NLVP-TR-69-1; [Office of Space Science and Applications, Launch Vehicle and Propulsion Programs]; contract NASw-1146.) * Paper, \$3.75. \bullet Item S30-C NAS 1.2: G 53/pt.2

NATIONAL ARCHIVES AND RECORDS SERVICE, General Services Administration, Washington, DC 20408

General information leaflet.

- 17259 3. Publications of National Archives and Records Service. [1969.] [2]+ii+30 +[2] p. narrow 8° ([70-2.]) \dagger \bullet Item 569 GS 4.22: 3
- 17260 Military operations of Civil War, guide-index to Official records of Union and Confederate Armies, 1861-65, v. 2: Main Eastern theater of operations, 2d fascicle, sec. M, Comprehensive index of recognized military operations, 1st part; [compiled by Dallas Irvine]. 1969. cover title, 77-172 p. 4° ([National Archives publication 68-11; National Archives.]) [Contents by volume and section on p. 4 of cover.] * Paper, \$1.00. \bullet Item 569-D L.C. card 73-604454 GS 4.21: 2/2

*For Sale by Superintendent of Documents

\dagger Distribution Made by Issuing Office

\ddagger Official Use. Not Available

NATIONAL BUREAU OF STANDARDS, Commerce Dept.
Gaithersburg, MD 20760

- 17261 Building research at National Bureau of Standards. [1969.] [15] p. il. oblong 32° ([Building Research Division.]) † ● Item 244
C 13.2: B 86

Monograph.

- 17262 112. Introduction to description and evaluation of microwave systems using terminal invariant parameters [with bibliography; by] Glenn F. Engen. Oct. 1969. v+23 p. il. 4° * Paper, 35c. ● Item 247-A
L.C. card 77-601820 C 13.44: 112

National standard reference data, NSRDS-NBS.

- 17263 22. Atomic transition probabilities: v. 2, Sodium through calcium, critical data compilation [with lists of references; by] W. L. Wiese, M. W. Smith, and B. M. Miles. Oct. 1969. [6]+xxxii+268 p. il. 4° (Institute for Basic Standards.) * Cloth, \$4.50. ● Item 248-B
L.C. card 65-60078 C 13.48: 22

Special publication.

- 17264 260. Standard reference materials: Catalog and price list of standard materials issued by National Bureau of Standards. [July 1969 edition.] July 1969. ii+[2]+44 p. il. 4° (Office of Standard Reference Materials.) [Supersedes NBS Miscellaneous publication 260, 1968 edition.] * Paper, 50c. ● Item 247
L.C. card 64-62975 C 13.10: 260/4

Technical note.

- 17265 510. Use of time-shared computer system to control Hall effect experiment [with list of references; by] W. Murray Bullis and others. Oct. 1969. vi+41 p. il. 4° * Paper, 50c. ● Item 249-A
L.C. card 77-604439 C 13.46: 510

NATIONAL CENTER FOR SOCIAL STATISTICS, Health, Education,
and Welfare Dept. Washington, DC 20201

NOTE.—The National Center for Social Statistics was established as part of Social and Rehabilitation Service to provide staff coordination, direction, and advice for all statistical activities and programs for SRS.

- 17266 Child welfare statistics, 1968. [1969.] cover title, [5]+45 p. il. 4° (NCSS report CW-1(68).) [Issued with perforations.] † ● Item 512-D
FS 17.638: 968
- 17267 Concurrent receipt of public assistance money payments and old-age, survivors, and disability insurance cash benefits by persons aged 65 or over, 1948-69 and Feb. 1969. [1969.] 1 p. 4 tabs., 4° (NCSS report G-2 (2/69).) †
FS 17.636: 948-69
- 17268 Progress report on staff development for fiscal year 1968. [1969.] [24] p. 4° (NCSS report E-3.) [Issued with perforations.] †
FS 17.630: 968
- 17269 Public assistance, annual statistical data, calendar year 1968. [1969.] [2]+20 p. 4° (NCSS report A-7.) [Issued with perforations.] †
FS 17.615: 968

NATIONAL COLLECTION OF FINE ARTS, Smithsonian
Institution, Washington, DC 20560

- 17270 Presidential portraits: compiled and written by Virginia C. Purdy and Daniel J. Reed; edited by J. Benjamin Townsend, 1968. (Smithsonian publication 4748.) [4]+76 p. il. 4° [Some illustrations are colored.] †
L.C. card 68-55302 SI 11.2: P 92

NATIONAL GUARD BUREAU, Defense Dept.
Washington, DC 20310

NGB pamphlets. † ● Item 358 D 12.8: (nos.)

- 17271 44-6. Announcement of winners, Eisenhower trophy [calendar year 1968]. [Sept. 15, 1969.] cover title, 6+[1] p. il. 4° (Departments of Army and Air Force.) [Issued with perforations. Supersedes NGB pam 44-6, July 15, 1968.]
- 17272 75-10-1. Federal property logistics management reporting procedures ARNG budget computation and summary report [RCS: ARNGB-22]. [June 16, 1969.] cover title, 5+A-15+[1] p. il. 4° [Departments of Army and Air Force.] [Issued with perforations.]

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

NATIONAL INSTITUTES OF HEALTH, Health, Education, and Welfare Dept., Bethesda, MD 20014

- 17273 Biomedical engineering, compendium of research training programs, supported by National Institute of General Medical Sciences, National Institutes of Health. Sept. 1969. [1]+iii+59 p. 4° † ● Item 507
FS 2.22: B 52/11
- 17274 Childhood leukemia, pamphlet for parents, [by] Stanford B. Friedman, Myron Karon, Gary Goldsmith; revised by Edward S. Henderson. [Revised] 1969. [1969.] vi+26 p. il. narrow 8° (National Cancer Institute.) † ● Item 507
FS 2.22: L 57/969
- 17275 Clinical Center of National Institutes of Health. [Revised 1969.] [1969.] cover title, [12] p. il. oblong 8° ([Public Health Service publication 316.]) [Text and another illustration on p. 2-4 of cover.] * Paper, 30c. ● Item 507
FS 2.22: C 61/969
- 17276 DHEW obligations to medical schools, fiscal year 1968. Sept. 1969. v+65 p. il. oblong 12° (Office of Resources Analysis, Office of Director.) † ● Item 507
L.C. card 70-600316
FS 2.22: M 46/9
- 17277 Idiopathic respiratory distress syndrome, proceedings of interdisciplinary conferences, respiratory distress syndrome, scope of problem, Nov. 15, 1967, Bethesda, Md.; Idiopathic respiratory distress syndrome, prematurity as contributing factor, Mar. 13, 1968, Bethesda, Md.; Idiopathic respiratory distress syndrome, therapeutic approaches, Apr. 30, 1968, Atlantic City, N.J. [with bibliographies], scientific editor, Joseph Dancis. [1969.] xii+150 p. il. 1 pl. [Conference sponsored by National Institute of Child Health and Human Development.] * Paper, \$1.25. ● Item 507
L.C. card 77-604317
FS 2.22: Id 3
- 17278 National Institutes of Health special research fellowships [announcement]. Sept. 1969. [4] p. 4° (Career Development Review Branch, Division of Research Grants.) † ● Item 507
FS 2.22: F 33/3/969
- 17279 NINDS research profiles, 1969: Summary of research at National Institute of Neurological Diseases and Stroke. 1969. vi+43 p. il. [Prepared as background information 1969 Congressional hearings on appropriations. Text on p. 2 of cover.] * Paper, 30c. ● Item 507-A-6
FS 2.22/43: 969
- 17280 Nutrition and developmental biology, assessment of present status and future of selected areas; prepared by Scientific Evaluation Section, Office for Research Analysis and Evaluation, Division of Research Grants. 1969. cover title, ix+48+[10] p. il. 4° † ● Item 507
L.C. card 71-604424
FS 2.22: N 95/5
- 17281 Rocky Mountain Laboratory, brief history of its growth and research activities. [1969.] cover title, [20] p. il. 4° (National Institute of Allergy and Infectious Diseases.) [Text and another illustration on p. 1-4 of cover. Some illustrations are colored.] † ● Item 507
FS 2.22: R 59/969
- 17282 Schools participating in nursing student assistance programs fiscal year 1970. [1969.] [1]+16 p. oblong 8° (Bureau of Health Professions Education and Manpower Training, Student Loan and Scholarship Branch.) † ● Item 507
FS 2.22: N 93/10/970

NATIONAL LIBRARY OF MEDICINE, Health, Education, and Welfare Dept., Bethesda, MD 20014

- 17283 Annual report for fiscal year 1969. [1969.] vii+31 p. il. 4° † ● Item 508-L
L.C. card 51-61086
FS 2.201: 969
- 17284 National Library of Medicine, post-graduate library associate training program in biomedical communications. [1969.] [6] p. il. narrow 8° ([Public Health Service publication 1530, revised.]) † ● Item 508-D
FS 2.202: L 61/969

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NATIONAL MUSEUM, Smithsonian Institution
Washington, DC 20560

Bulletin.

- 17285 293. Catalog of recent ophiuroid type specimens in major collections in United States; [by] Maureen E. Downey. 1969. vi+239 p. † * Paper, \$1.50.
● Item 919
L.C. card 75-604370 SI 3.3: 293

NATIONAL PARK SERVICE, Interior Dept.
Washington, DC 20242

- 17286 Historic structures report, pt. 2, Historical data section: Fort Larned National Historic Site; by James W. Sheire. Feb. 1969. vii+106+[2] leaves, il. 24 pl. 4° (Division of History, Office of Archeology and Historic Preservation.) [Authorized by Research study proposed FOLS-H-2. References in footnotes.] ‡
L.C. card 74-604449 I 29.2: F 77 1
- 17287 National Park Service archeological program. [1969.] [10] p. il. narrow 8°
† ● Item 648 I 29.2: Ar 2/3/969
- 17288 National parks, USA: House where Lincoln Died, Washington, D.C. [poster]. 1969 42 x 28 in. * Paper, 30c. I 29.20/2: L 63
- 17289 National register of historic places [Information leaflet.] [1969.] [10] p. il. narrow 8° † ● Item 648 I 29.2: H 62/10
- 17290 Ozark National Scenic Riverways, Mo. [1969.] [2] p. il. large 4° folded into narrow 8° size * Paper, 10c. ● Item 651 I 29.6/4: Oz 1
- 17291 Richmond National Battlefield Site, Va. [Revised 1969.] [1969.] [2] p. il. oblong large 8° folded into narrow 24° size. † ● Item 650 I 29.21: R 41/5/969
- 17292 Saguaro, Saguaro National Monument, Ariz. [Revised 1969.] [1969.] [2] p. il. large 4°, folded into narrow 8° size. * Paper, 10c. ● Item 650 I 29.21: Sa 1/2/969
- 17293 Thomas Jefferson Memorial. [1969.] cover title, [20 p. il. narrow 8° * Paper, 30c. ● Item 650 I 29.21: J 35/7/969
- 17294 White Sands National Monument, N. Mex. [Revised 1969.] [1969.] [2] p. il. 4°, folded into 24° size. † ● Item 650 I 29.21: W 58/6/969

NATIONAL SCIENCE FOUNDATION
Washington, DC 20550

- 17295 Science facilities bibliography. 1969. v+47 p. (NSF 69-24.) * Paper, 35c. ● Item 834-H NS 1.13: F 11/969
L.C. card 79-602480
- 17296 Scientific and technical personnel in Federal Government, 1967; [prepared by Joel L. Barries]. [1969.] viii+40 p. il. 4° (Surveys of science resources series; NSF 69-26.) * Paper, 50c. ● Item 834-T NS 1.22: G 74/967
L.C. card 63-60142

NATIONAL TRANSPORTATION SAFETY BOARD, Transportation
Dept., Washington, DC 20590

- 17297 Systems approach to accident investigation [paper, with list of references], by C. O. Miller, Director, Bureau of Aviation Safety, National Transportation Safety Board, Washington, D.C., for presentation at Flight Safety Foundation, annual seminar, Montreux, Switzerland, Oct. 28, 1969. [1969.] [3]+20+[1] p. il. 4° † TD 1.110: M 61/2

NAVAL FACILITIES ENGINEERING COMMAND, Defense Dept.
Washington, DC 20360

- Design manual DM (series). [Issued with perforations.]
17298 Drawings and specifications, Interim change 2. Oct. 1969. 3 p. 4° * Paper, 10c.
● Item 418-A D 209.14/2: 6/2/Int.ch.2

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

NAVAL OCEANOGRAPHIC OFFICE, Defense Dept. Washington, DC 20390

- Publications. D 203.22 : (nos.)
- 17299 16. Change 1, Sept. 27, 1969, looseleaf change pages for correcting Sailing directions for west coast of Greenland [Kap Farvel to Kap Morris Jesup], 3d edition, 1968. [1969.] [141] p. il. 4° [Includes list of effective pages and Notice to mariners 39, Sept 27, 1969.] † Paper, \$1.75. ● Item 378 (Rev. 1957)
- 17300 17. Change 11, Oct. 11, 1969, loose leaf change pages for correcting Sailing directions for east Greenland and Iceland, 2d edition, 1951. [1969.] [82] p. il. 4° [Includes list of effective pages.] † Paper, \$1.75.
- 17301 111B. Change 22, Oct. 4, 1969, List of lights and fog signals, west coasts of North and South America (excluding continental U.S.A., Alaska and Hawaiian Islands), Australia, Tasmania, New Zealand, and Islands of North and South Pacific Oceans, 1969. [102] p. 4° [Includes list of effective pages and Notice to mariners 40, 1969. Issued in looseleaf form.] † Paper, 50c. ● Item 378 (Rev. 1957)
- 17302 115. Change 17, Sept. 20, 1969, List of lights and fog signals, Norway, Iceland and Arctic Ocean. [1969.] [87] p. 4° [Includes list of effective pages, and Notice to mariners 38, 1969. Issued in looseleaf form.] † Paper, 50c. ● Item 378 (Rev. 1957)
- 17303 116. Change 21, Oct. 4, 1969, List of lights and fog signals Baltic Sea with Kattegat, Belts and Sound and Gulf of Bothnia. [1969.] [94] p. 4° [Includes list of effective pages and Notice to mariners 40, 1969. Issued in looseleaf form.] † Paper, 50c. ● Item 378 (Rev. 1957)
- 17304 118. Radio weather aids, 1st edition, 1969. [502] p. il. 4° [Includes Notice to mariners 31, Aug. 2, 1969. Issued in looseleaf form. Cancels Radio weather aids H.O. pub. 118A and 118B, issued in 1963, with corrective Changes.] † Paper, \$4.50; with ringbinder, \$6.00; each Change \$1.00. ● Item 378 (Rev. 1957)
L.C. card 72-604443
- 17305 606-a. Obtaining and reporting navigational information. Naval Oceanographic Office observers' manual, 3d edition, 1969. [2] leaves+30 p. il. 4° † Paper, 40c. ● Item 378 (Rev. 1957)
L.C. card 73-604411
- 17306 Water planet. [1969.] 48 p. il. 4° [Text and other illustrations on p. 1-4 of cover.] * Paper, \$1.00. ● Item 377
L.C. card 77-604404 D 203.2 : W 29

NAVAL OPERATIONS OFFICE, Defense Dept. Washington, DC 20390

- 17307 Naval Documents of American Revolution : v. 4, American theatre, Feb. 19-Apr. 17, 1776, European theatre, Feb. 1-May 25, 1776, American theatre, Apr. 18-May 8, 1776 [with bibliography]; William Bell Clark, editor, with foreword by Secretary of Navy, John H. Chafee; introduction by Ernest McNeill Eller. 1969. xxxii+[2]+1580 p. il. 1 por. large 8° ([Naval History Division.]) [Illustrated lining papers.] * Cloth, \$14.25.
● Item 399-D
L.C. card 64-60087 D 207.12 : 4

NAVAL PERSONNEL BUREAU, Defense Dept. Washington, DC 20390

- 17308 Guide for line officers performing supply duties [prepared by Training Publications Division, Naval Publications Division, Naval Personnel Program Support Activity]. 1st edition 1959, major revision 1969. [1969.] 326 p. il. 4° (NAVPERS 10779-C † ● Item 403-A
L.C. card 63-65266 D 208.6/3 : Su 7/969
- 17309 Manual of Navy officer classification, Change 1. Aug. 28, 1969. [348] p. 4° (NAVPERS 15839B.) [Issued with perforations.] † ● Item 403-A
D 208.6/3 : C 56/2/968/ch.1
- 17310 Patternmaker 1 & C; [prepared by Training Publications Division, Naval Personnel Program Support Activity]. [1st edition 1955, revised 1962, 1969.] [1969.] cover title, iv+251 p. il. 4° (NAVPERS 10579-B; Rate training manual.) † ● Item 404
L.C. card 76-604314 D 208.11 : P 27/969
- 17311 Quartermaster 1 & C; [prepared by Training Publications Division, Naval Personnel Program Support Activity.] [Original edition 1949, revised 1969.] [1969.] cover title, iv+188 p. il. 4° (Rate training manual; NAVPERS 10151-C.) † ● Item 404
L.C. card 65-61097 D 208.11 : Q 2/2/969

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NAVAL RESEARCH OFFICE, Defense Dept.
Washington, DC 20390

NRL reports. (Naval Research Laboratory.)

D 210.8:(nos.)

- 17312 6907. Satellite turastile antennas [with bibliography; by] Stephen Nichols. Aug. 6, 1969. cover title, ii+20 p. il. 4° ([NRL problems A01-17, A01-20, and R04-16, project A37-53S-002/652-1/F019-01-01.J) Φ Paper \$3.00 (AD 694003).
- 17313 6916. Function of adhesion promoters in adhesive bonding [with list of references; by] Willard D. Bascom, June 5, 1969. cover title, ii+16 p. il. 4° ([NRL problem 002-21, contract Nonr P09-0020, subproject RR 001-08-01.J) Φ Paper, \$3.00. (AD 694004).
- 17314 6921. NRL Microwave Space Research Facility: Design and development of 60-ft. X-band antenna; [by] C. A. Bass and D. H. Townsend, Aug. 11, 1969. cover title, ii+24 p. il. 4° ([NRL problem R01-36, projects SF 019 024, task 7449 and XF 48222001-116/2116.5.J) Φ Paper, \$3.00 (AD 694005).
- 17315 6932. Corrosion resistance of some common metals to concentrated and 6% solutions of light water fire-extinguishing agent [with list of references; by] A. W. Bertschy and H. B. Peterson, Aug. 8, 1969. cover title, ii+16 p. il. 4° ([NRL problem C05-19, project SF 015-07-02-3350, subproject S 4643, task 12081.J) Φ Paper, \$3.00. (AD 692384).

NAVY DEPARTMENT, Defense Dept.
Washington, DC 20350

- 17316 Introduction to Antarctica, [with list of suggestions for further reading]. [Oct. 1957, 4th revision July 1969.] [1969.] cover title, ii+54 p. il. 4° ([History and Research Division, U.S. Naval Support Force, Antarctica.J) [Replaces publication formerly issued under same title by U.S. Antarctic Projects Officer.] * Paper, 60c. ● Item 373-A
L.C. card 65-60198 D 201.15/2: An 8/2

OUTDOOR RECREATION BUREAU, Interior Dept.
Washington, DC 20240

- 17316A Remarks by G. Douglas Hofe, jr., Director of Bureau of Outdoor Recreation, Department of Interior, before Delaware Recreation and Park Society, Wilmington, Del., Oct. 23, 1969. 3 leaves. 4° † I 66.9: H 67

PATENT OFFICE, Commerce Dept.
Washington, DC 20231

Classification definitions. [Issued with perforations.]

- 17317 class 117. Coating processes and miscellaneous products; revised by Office of Examining and Documentation. Revision 2. Oct. 1969. [58] p. 4° † Paper, 50c. ● Item 252 C 21.3/2: 117/rev.2
- 17318 Protecting property in computer software, text of address by William E. Schuyler, jr., Commissioner of Patents, for delivery before Computers-in-Law Institute, National Law Center, George Washington University, Oct. 8, 1969. 1969. 6 p. 4° † C 21.20: Sch 8/2
- 17319 Protection of industrial property rights internationally, text of address by William E. Schuyler, jr., Commissioner of Patents, for delivery before French-American Chamber of Commerce, New York, N.Y., Oct. 21, 1969. 1969. 8 p. 4° † C 21.20: Sch 8/3

POST OFFICE DEPARTMENT
Washington, DC 20260

[Commemorative stamp posters.]

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

- 17320 6-cent Crippled children and adults commemorative postage stamp will be first placed on sale at Columbus, Ohio, Nov. 20, 1969. 10.5 x 8 in. P 1.26/2: C 86/7
- 17321 6-cent Harnett American painting commemorative postage stamp will be placed on sale on Dec. 3, 1969, at Boston, Mass. 1969. 10.5 x 8 in. P 1.26/2: H 22
- 17322 45-cent special delivery stamp will be placed on sale on Nov. 21, 1969, at New York, N.Y. 1969. 10.4 x 8 in. P 1.26/2: Sp 3

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

[State postal maps.]

- 17323 Minnesota, May 1, 1969. Scale 40 m.-2.9 in. 32 x 26 in. * Paper, 35c.
P 1.39/2 : M 66/969
Inset :
St. Paul-Minneapolis area.
- 17324 Mississippi, June 1, 1969. Scale 40 ml.-3.4 in. 32 x 22 in. * Paper, 35c.
P 1.39/2 : M 69 1/969
- 17325 Oregon, May 1, 1969. Scale 40 ml.-3 in. 25 x 32 in. * Paper, 35c.
P 1.39/2 : Or 3/969
Inset :
Portland and Vicinity.
- 17326 Texas (eastern section). Apr. 1, 1969. Scale 50 ml.-2.6 in. 32 x 22 in. * Paper, 35c.
P 1.39/2 : T 31/969

PRESIDENT OF THE UNITED STATES Washington, DC 20501

- 17327 MR 69, toward progress, story of decade, 3d report by President's Committee on Mental Retardation about developments in national campaign to overcome mental retardation. [1969.] cover title, 32 p. il. 4° [Text and another illustration on p. 2-4 of cover.] * Paper, 60c. ● Item 851-J
L.C. card 67-62450 Pr 36.8 : M 52/R 29/969

PUBLIC DOCUMENTS DIVISION, Government Printing Office Washington, DC 20402

Price list PL (series).

- 17328 36. Government periodicals and subscription services; Nov. 1969. 136th edition. [1969.] [2] + 42 p. † ● Item 554
L.C. card 26-26170 GP 3. 9 : 36/136

PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept. Washington, DC 20201

- 17329 Automation of rheumatic fever registries, report of seminar, May 21 and 22, 1968, sponsored by Heart Disease and Stroke Control Program, Division of Chronic Disease Programs, Regional Medical Programs Service, Health Services and Mental Health Administration. [1969.] vi + 94 p. il. 4° ([Publication 1924.]) [Includes reading list for additional information on rheumatic fever registration.] * Paper, \$1.00. ● Item 485
L.C. card 73-604316 FS 2.2 : R 34/2
- 17330 Breath of hope, respiratory rehabilitation. [Revised 1969.] [1969.] cover title, [16] p. il. 4° ([Publication 1802; Chronic Respiratory Diseases Control Program, Health Services and Mental Health Administration.]) [Text and other illustrations on p. 1-4 of cover.] † ● Item 485
FS 2.2 : R 31/13/969
- 17331 Community mental health center, bold new approach. [Revised 1969.] [1969.] [6] p. narrow 8° ([Publication 1643; Health Services and Mental Health Administration], National Clearinghouse for Mental Health Information, National Institute of Mental Health.) * Paper, \$5.00 per 100 copies; single copy, 10c. ● Item 507
FS 2.22 : M 52/65/969
- 17332 Demonstration guide for prevention of electric shock injury. 1969. v + 49 p. il. 4° ([Publication 1952; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Community Environmental Management.]) [Includes list of program aids and materials.] * Paper, 65c. ● Item 496-A
L.C. card 79-604426 FS 2.6/2 : El 2
- DER [Division of Environmental Radiation] (series).
- 17333 69-1. Evaluation of radon 222 near uranium tailings piles, final report of joint project of Public Health Service and Atomic Energy Commission. [with list of references]. Mar. 1969. vii + 67 p. il. 4° Environmental Control (Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Radiological Health.) [Prepared in cooperation with State health agencies of Colorado and Utah.] † ● Item 483-M
FS 2.314/3 : 69-1

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 17334 Diabetes source book; [prepared by Helen M. Vavra]. [Revised, 1968.] [1969.] cover title, 80 p. il. oblong 12° ([Publication 1168; Health Services and Mental Health Administration, Diabetes and Arthritis Control Program.]) * Paper, 75c. ● Item 485
L.C. card 74-604351 FS 2.2: D 54/13/968
- 17335 Dismantling railroad freight cars, study of improved methods with application to other demolition problems; by Dale M. Butler and William M. Graham. 1969. vi+32 p. il. 4° ([Publication 1850]; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Solid Waste Management.) [Prepared by Booz, Allen Applied Research Inc., under contract PH 86-67-100.] * Paper, 45c. ● Item 485
L.C. card 75-603791 FS 2.2: F 88
- Environmental health series: Air pollution.
- 17336 AP-35. Emissions from coal-fired power plants, comprehensive summary [with list of references; by] Stanley T. Cuffe and Richard W. Gerstle. 1967. [2d printing, 1969.] v+26 p. il. ([Publication 999-AP-35]; Consumer Protection and Environmental Health Service, National Air Pollution Control Administration, Durham, N.C.) * Paper, 25c. ● Item 483-F
L.C. card 67-61810 FS 2.300: AP-35
- 17337 Experimental and special training grants, National Institute of Mental Health, guidelines for applicants. [1969.] [8] p. narrow 8° ([Publication 1983; Health Services and Mental Health Administration, National Institute of Mental Health], National Clearinghouse for Mental Health Information.) † ● Item 507-H FS 2.22/15: G 76/2
- 17338 Foodborne outbreaks, Jan.-June 1969. [1969.] cover title, [2]+33 p. il. 4° ([Health Services and Mental Health Administration, National Communicable Disease Center, Atlanta, Ga.]) † FS 2.60/18: 969
- 17339 Health consequences of smoking, 1969 supplement to 1967 Public Health Service review [with lists of cited references]. [1969.] ix+98 p. ([Publication 1696-2.]) * Paper, 50c. ● Item 485-A
L.C. card 68-60025 FS 2.309: 967/rev./supp.969
- 17340 HSMHA public advisory committees, authority, structure, functions, pt. 1, v. 1, 1969. [Apr. 1969.] xii+179 p. ([Publication 2004]; Health Services and Mental Health Administration, Committee Management Staff.) † ● Item 483-T
L.C. card 75-604425 FS 2.321: 1
- 17341 Laboratory procedures for diagnosis of intestinal parasites [with list of references; by] Dorothy M. Melvin and Marion M. Brooke. [1969.] ix+[1]+166 p. il. ([Publication 1969]; Health Services and Mental Health Administration, National Communicable Disease Center, Laboratory Division, Laboratory Consultation and Development Section, Atlanta, Ga.) * Paper, \$2.75. ● Item 505-A
L.C. card 75-604354 FS 2.60/7: In 8/2
- 17342 Master plan for solid waste collection and disposal tri-parish metropolitan area of New Orleans, final report on solid waste management demonstration; prepared by Albert Switzer & Associates, Inc. and Greenleaf/Telesca. 1969. [359] p. il. 4° ([Publication 1932]; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Solid Waste Management.) [Prepared for City of New Orleans under grant D01-UI-00063.] † Bureau of Solid Waste Management, Environmental Control Administration, 222 East Central Parkway, Cincinnati, OH 45202
L.C. card 77-602040 FS 2.2: So 4/16
- Mental health statistics: Series A [Mental health facilities report]. (National Institute of Mental Health [Health Services and Mental Health Administration, National Clearinghouse for Mental Health Information.]) ● Item 491-A FS 2.53/2-2: A/(nos.)
- 17343 1. Patients in public institutions for mentally retarded. 1967; [by Carl A. Taube. [1969.] ii+[1]+71 p. il. 4° ([Publication 1860.]) [Prepared by Survey and Reports Section, Biometry Branch, OPPE.] * Paper, 70c.
L.C. card 76-604444

GOVERNMENT PUBLICATIONS

Mental health statistics—Continued

- 17344 3. Veterans with mental disorders, 1963-67; [prepared by Survey and Reports Section, Biometry Branch, Office of Program Planning and Evaluation, NIMH]. [1969.] iii+209 p. 4° ([Publication 1934.]) [Report based on data from Biometrics Division, Office of Controller, Veterans Administration. Text written by Carl A. Taube.] * Paper, \$1.75.
L.C. card 70-604445

National Air Pollution Control Administration publication, AP (series). (Consumer Protection and Environmental Health Service.) ● Item 483-E FS 2.93/3:(nos.)

- 17345 54. Atmospheric emissions from hydrochloric acid manufacturing processes cooperative study project, Manufacturing Chemists, Association, Inc., and Public Health Service. [with list of references; by Samuel L. Bean and Wall, Jr.], Sept. 1969. x+59 p. il. * Paper, 35c.
L.C. card 75-604484
- 17346 59. Climate of cities, surveys of recent literature [with list of references]; by James T. Peterson, Oct. 1969. v+48 p. il. * Paper, 55c.
L.C. card 70-604448

National Air Pollution Control Administration publication APTD (series). (Consumer Protection and Environmental Health Service.) ● Item 483-E FS 2.93/3-2:(nos.)

- 17347 69-4. 1962-1963 data tabulations and summaries, continuous air monitoring projects, National Air Surveillance Networks, Chicago, May 1969. v+172 p. 4° † National Air Pollution Control Administration, U.S. Department of Health, Education, and Welfare, 801 North Randolph Street, Arlington, VA 22203
- 17348 69-14. Continuous air monitoring projects in Philadelphia 1962-65; compiled by Division of Air Quality and Emission Data, Aug. 1969. v+364 p. il. 4° † Office of Technical Information and Publications, National Air Pollution Control Administration, Department of Health, Education, and Welfare, Ballston Center Tower no. 2, 801 North Randolph Street, Arlington, VA 22203

- 17349 NIMH Center for Studies of Schizophrenia, its functions and activities. [1969.] [4] p. narrow 8° (National Clearinghouse for Mental Health Information, National Institute of Mental Health. [Health Services and Mental Health Administration.]) † ● Item 507 FS 2.22: Sch 3/2

- 17350 NIMH [National Institute of Mental Health] in brief. [1969.] [12] p. 24° ([Publication 1916; Health Services and Mental Health Administration, National Institute of Mental Health, National Clearinghouse for Mental Health Information.]) * Paper, 10c. ● Item 507 FS 2.22: N 21/12

- 17351 Observations of continental European solid waste management practices; by Michael E. Jensen. 1969. v+46 p. 4° ([Publication 1880; Consumer Protection and Environmental Health Service, Environmental Control Administration, Bureau of Solid Waste Management.]) * Paper, 55c. ● Item 485
L.C. card 79-603445 FS 2.2: So 4/19

- 17352 Recent research on narcotics, LSD, marihuana, and other dangerous drugs. Oct. 1969. [2]+20 p. ([Publication 1961; National Institute of Mental Health, Health Services and Mental Health Administration.]) [Based on testimony presented before Congress by Stanley F. Yolles, Director, National Institute of Mental Health, 1968-69.] * Paper, 20c. ● Item 507
L.C. card 71-604396 FS 2.22: N 16/5

- 17353 Remarks by Charles C. Johnson, jr., Administrator, Consumer Protection and Environmental Health Service, Public Health Service, Department of Health, Education, and Welfare, for presentation to American Public Works Association in Cleveland, Ohio, Sept. 15, 1969. [1969.] 13 p. 4° † ● Item 481-D FS 2.30: J 63/20

- 17354 Report for consultation on Houston-Galveston Intrastate Air Quality Control Region (Texas) [with list of references]. Oct. 1969. [4]+xi+[1]+27 p. il. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 483-E
L.C. card 77-600866 FS 2.93/5: H 81

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 17355 Report for consultation on Louisville Interstate Air Quality Control Region (Indiana-Kentucky) [with list of references]. Oct. 1969. [1]+51 p. il. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 483-E
L.C. card 77-600866 FS 2.93/5: L 93
- 17356 Report for consultation on [metropolitan] Dallas-Ft. Worth Intrastate air quality control region (Texas) [with list of references]. Oct. 1969. [49] p. il. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 483-E
L.C. card 77-600866 FS 2.93/5: D 16
- 17357 Report for consultation on Phoenix-Tucson Intrastate Air Quality Control Region (Arizona) [with list of references]. Sept. 1969. [3]+ii+54 p. il. 4° (Consumer Protection and Environmental Health Service, National Air Pollution Control Administration.) † ● Item 483-E
L.C. card 77-600866 FS 2.93/5: P 56
- Vital and health statistics: Series 3, Analytical studies. (National Center for Health Statistics.)
- 17358 13. Mortality trends in Czechoslovakia; [by Milos Vacek]. Nov. 1969. vi+26 p. il. 4° ([Publication 100, series 3, no. 13]; Health Services and Mental Health Administration, Office of Health Statistics Analysis.) * Paper, 35c. ● Item 500-E
L.C. card 75-601387 FS 2.85/2: 3/no.13
- Series 11, Data from National Health Survey. (National Center for Health Statistics.)
- 17359 34. Blood pressure, as it relates to physique, blood glucose, and serum cholesterol, United States, 1960-62 [with list of references; by Charles du V. Florey, and Roy M. Acheson]. Oct. 1969. iv+29 p. 4° ([Publication 1000, series 11, no. 34]; (Health Services and Mental Health Administration, Division of Health Examination Statistics.) * Paper, 40c. ● Item 500-E
L.C. card 76-601416 FS 2.85/2: 11/no.34
- Series 22, Data from National Vital Statistics System. (National Center for Health Statistics.)
- 17360 10. Health insurance coverage of adults who died in 1964 or 1965, United States [with list of references; by Elaine J. Timmer]. iv+46 p. il. 4° † * Paper, 50c. ● Item 500-E
L.C. card 79-602405 FS 2.85/2: 22/no.10

RECLAMATION BUREAU, Interior Dept.
Washington, DC 20240

- 17361 American River division, Central Valley project, Calif. [1969.] [16] p. il. folded into narrow 8° size. † ● Item 660 I 27.2: Am 3/2/969
- 17362 Federal reclamation projects, 1968 crop report and related data. [1969.] vi+50 p. il. 4° (Division of Water and Land Operations.) [One illustration is colored.] † ● Item 663-A
L.C. card 53-63671 I 27.55: 968
- 17363 Federal reclamation projects, 1968 crop report and related data, 1968 statistical appendix. [1969.] cover title, iii+243 p. il. 4° (Division of Water and Land Operations.) † ● Item 663-A
L.C. card 53-63671 I 27.55: 968/app.

RURAL ELECTRIFICATION ADMINISTRATION, Agriculture Dept.
Washington, DC 20250

- 17364 1968 annual statistical report, rural electrification borrowers [lending program of Rural Electrification Administration loan, operating and financial statistics of REA electric borrowers, year ending Dec. 31, 1968]. [Aug. 1969.] cover title, 258 p. il. 4° (REA bulletin 1-1.) [Text on p. 2 of cover.] * Paper, \$2.00. ● Item 115
L.C. card 49-38508 A 68.1/2: 968

GOVERNMENT PUBLICATIONS

REA bulletin.

- 17365 160-2. Engineering and operations manual for rural electric systems: sec. 2, Distribution line design (mechanical) [with list of references]. July 1969. xi+120 p. il. 4° [Pages 119-120 left blank for notes.] * Paper, \$1.50. ● Item 116
L.C. card 77-604384 A 68.3: 160-2

SCIENCE AND TECHNOLOGY OFFICE, Executive Office of the President, Washington, DC 20506

- 17366 Offshore mineral resources, challenge and opportunity, 2d report of President's Panel on Oil Spills. 1969. cover title, [1]+v+12 p. 4° * Paper, 30c. ● Item 857-F-1
L.C. card 78-604360 PrEx 8.2: M 66
- 17367 Oil spill problem, 1st report of President's Panel on Oil Spills [with bibliography]. [1969.] cover title, [1]+v+25 p. 4° [Prepared by Santa Barbara Oil Spill Panel.] * Paper, \$1.25. ● Item 857-F-1
L.C. card 71-604361 PrEx 8.2: Oi 5

SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

- 17368 [NASA remarks], address by Manuel F. Cohen, Chairman, Securities and Exchange Commission, before North American Securities Administrators, Bal Harbour, Fla., Oct. 8, 1968. [1969.] [1]+6 p. 4° †
SE 1.14: C 66/2

SMALL BUSINESS ADMINISTRATION Washington, DC 20416

- 17369 Small Business Administration publications, for-sale booklets. Sept. 1969. 6+[1] p. 4° (SBA 115B) † ● Item 901-N SBA 1.18: 969-4
- Starting and managing series.
- 17370 v. 17. Starting and managing small retail camera shop by Morrie Bragin. [Oct. 1969.] ([Procurement and Management Assistance; Office of Management Assistance.]) [Includes list of aids for keeping informed.] * Paper, 40c. ● Item 901-L
L.C. card 72-604313 SBA 1.15: 17

SMITHSONIAN INSTITUTION Washington, DC 20560

Atoll research bulletin.

- 17371 128-135. Notes on birds observed in Comoros on behalf of Smithsonian Institution: Four southwestern Caribbean atolls, Courtown Cays, Albuquerque Cays, Roncador Bank and Serrana Bank; Botanical description of Big Pelican Cay, little known island off south coast of Jamaica; Post-hurricane changes on British Honduras reefs and says, re-survey of 1965; Plants of Satawal Island, Caroline Islands; Collection of plants from Fais, Caroline Islands; Plants collected on islands in western Indian Ocean during cruise of M.F.R.V. Manihine, Sept.-Oct. 1967; Island news and comment [with bibliographies]; by A. D. Forbes-Watson [and others]. Aug. 15, 1969. [201] p. il. 4° † ● Item 910-C SI 1.25: 128-135

Publications in salvage archeology; series editor Richard B. Johnston.

- 17372 13. Grand Detour phase [with list of literature cited]; by Warren W. Caldwell and Richard E. Jensen, editor Jerome E. Petsche, Lincoln, Nebr., 1969. lii+133 p. il. 4° (River basin surveys, Museum of Natural History.) †
L.C. card 71-603782 SI 1.22: 13

Smithsonian contributions to zoology. ● Item 910-D SI 1.27: (nos.)

- 17373 21. Ten rhyparus from Western Hemisphere (coleoptera: Scarabaeidae, aphodiinae) [with list of literature cited; by] Oscar L. Cartwright and Robert E. Woodruff. 1969. [2]+20 p. 4° [Contribution no. 114, Entomology Section, Division of Plant Industry, Florida Department of Agriculture.] * Paper, 35c.
L.C. card 71-604440
- 17374 23. Bredin-Archbold-Smithsonian biological survey of Dominica: Phoridae of Dominica (Diptera) [with list of literature cited; by] Thomas Borgmeier. 1969. [2]+69 p. il. 4° * Paper, 70c.
L.C. card 76-604401

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 17375 25. Monographic study of Mexican species of Enlinia (Diptera: Dolichopodidae) [with list of literature cited; by] Harold Robinson. 1969. [2]+62 p. il. 4° * Paper, 65c.
L.C. card 72-604380
- 17376 29. Deep-sea Cerviniidae (Copepoda, Harpacticoida) from western Indian Ocean; collected with R/V Anton Bruun in 1964 [with list of literature cited; by F. D. Por. 1969. [2]+60 p. il. 4° * Paper, 65c.
L.C. card 70-604413

SOCIAL AND REHABILITATION SERVICE, Health, Education, and Welfare Dept., Washington, DC 20201

- 17377 Delinquency today, guide for community action; [prepared by John M. Martin]. [1969.] cover title, [1]+22 p. il. narrow 8° (Office of Juvenile Delinquency and Youth Development.) * Paper, 20c. ● Item 512-A-3
FS 17.8: D 37
- 17378 International cooperation, contribution of Social and Rehabilitation Service. July 1969. [2]+10 p. il. ‡ ● Item 512-A-1 FS 17.2: In 8/2
- 17379 Volunteer programs in courts, collected papers on productive programs [with bibliographies]. 1969. vii+268 p. ([JD publication 478]; Office of Juvenile Delinquency and Youth Development.) [Companion volume to Using volunteers in court settings.] * Paper, \$1.25. ● Item 512-A-4
L.C. card 70-604192 FS 17.8/2: C 83/2

SOCIAL SECURITY ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201

Actuarial note.

- 17380 61. Hospital utilization and average daily hospital costs for persons aged 65 and over as indicated by data under Hospital Insurance Program and from American Hospital Association; by Robert J. Myers. Sept. 1969. [4] p. 4° † FS 3.19/2: 61

Health insurance statistics: Current medicare survey report, CMS (series). (Office of Research and Statistics.)

- 17381 10. Hospital insurance sample; by Sara Jane Godshall. Oct. 8, 1969. 18+[6] p. il. 4° (Division of Health Insurance Statistics.) † FS 3.28/4: 10

Research and statistics note, 1969 (series). (Office of Research and Statistics.)

- 17382 18. National health expenditures, fiscal years 1929-69 and calendar years 1929-68; by Barbara S. Cooper. Nov. 7, 1969. 2+[11] p. 4° † FS 3.28/2: 969/18

- 17383 Rights and responsibilities of those who receive social security disability benefits. 1969 edition. July 1969. 29 p. narrow 12° (SSA-1419 (7-69).) † ● Item 516 FS 3.2: D 63/3/969

SSI-(series).

- 17384 13. Answers for doctors, social security disability program. Aug. 1969. 14 p. narrow 8° † ● Item 523-B FS 3.52: 13/2

SOIL CONSERVATION SERVICE, Agriculture Dept. Washington, DC 20250

- 17385 Appraisal of potentials for outdoor recreational development: Benton County, Tenn., Jan. 1969. Fort Worth, Tex. [June] 1969. cover title, [1]+15+29+[6] p. 4° [Prepared in cooperation with Tennessee Game and Fish Commission, University of Tennessee Agricultural Extension Service, Tennessee Department of Conservation, County Technical Action Panel, local individuals, organizations, and agencies. Illustrations on p. 1-2 of cover.] † A 57.57: B 44
- 17386 — Henry County, Tenn., Jan. 1969. Fort Worth, Tex. [June] 1969. cover title, [1]+13+30+[5] p. 4° [Prepared in cooperation with Tennessee Game and Fish Commission, University of Tennessee Agricultural Extension Service, Tennessee Department of Conservation, County Technical Action Panel, local individuals, organizations, and agencies. Illustrations on p. 1-2 of cover.] † A 57.57: H 39

ΦFor Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

- 17387 — Hickman County, Tenn., Jan. 1969. Fort Worth, Tex. [Aug.] 1969. cover title, [1]+16+52+[6] p. 4° [Prepared in cooperation with Tennessee Game and Fish Commission, University of Tennessee Agricultural Extension Service, Tennessee Department of Conservation, County Technical Action Panel, local individuals, organizations, and agencies. Illustrations on p. 1-2 of cover.] † A 57.57: H 52
- 17388 — Trousdale County, Tenn., Mar. 1969. Fort Worth, Tex. [Aug.] 1969. cover title, [1]+16+9+[8] p. 4° [Prepared in cooperation with Tennessee Game and Fish Commission, University of Tennessee Agricultural Extension Service, Tennessee Department of Conservation, County Technical Action Panel, local individuals, organizations, and agencies. Illustrations on p. 1-2 of cover.] † A 57.57: T 75
- 17389 1969 fall water supply summary [western United States]; by Water Supply Forecasting Branch, Portland, Oreg. [1968.] [4] p. il. 4° † A 57.46/8: 969
- 17390 Soil survey: San Benito County, Calif. [with list of literature cited; by Dan Isgrig and others]. Nov. 1969. cover title, i+111 p. 4 tab., 116 p. of pl. and maps 4° [Prepared in cooperation with University of California Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] * Paper, \$6.50. ● Item 102 (Rev. 1957) L.C. card 76-604294 A 57.38: Sa 5
- 17391 Soil survey interpretations for woodlands in southern Blue Ridge area of Georgia, North Carolina, South Carolina, and Tennessee, Progress report W-12, July 1969. Fort Worth, Tex., 1969. [1]+22 p. 4° † A 57.58: 12
- 17392 Water-supply summary and outlook for Oregon and Federal-State-private cooperative snow surveys; prepared by Tommy A. George [and] Howard M. Vance. Oct. 8, 1969. [5] leaves il. 4° [Prepared in cooperation with Oregon Agricultural Experiment Station and State Engineer, State of Oregon and with other Federal, State, and private organizations.] † A 57.46/5-2: 969

SOLICITOR, OFFICE OF, Interior Dept. Washington, DC 20240

- 17393 Decennial index-digest, decisions and opinions of Department of Interior; Jan. 1955-Dec. 1964, pt. 1; prepared and edited by Vera E. Burgin. 1969. xviii+963 p. 4° * Cloth, \$5.50. ● Item 602 L.C. card 60-62417 I 1.69/2: 955-64/pt.1

SPORT FISHERIES AND WILDLIFE BUREAU, Interior Dept. Washington, DC 20240

Refuge leaflet.

- 17394 23. St. Marks National Wildlife Refuge, Fla. [Revised] Aug. 1969. [1969.] [2] p. il. oblong 8°, folded into narrow 8° size. * Paper, 15c. ● Item 612-C I 49.44: 23/2

Resource publications. ● Item 613-B

I 49.66: (nos.)

- 17395 79. Division of Fishery Services annual report, calendar year 1968; prepared by R. T. Webb and F. R. Richardson. July 1969. iv+60 p. il. 4° * Paper, 60c. ● Item 613-B L.C. card 42-37746
- 17396 81. Western Fish Nutrition Laboratory. [July 1969.] [8] p. il. narrow 8° ([Western Fish Nutrition Laboratory, Cook, Wash.]) * Paper, 10c.

Technical paper.

- 17397 28. Studies of estuarine dependence of Atlantic Coastal fishes [with list of references]; by John Clark [and others]. Aug. 1969. 132 p. il. 4° * Paper, \$1.25. ● Item 615-A L.C. card 70-604382 I 49.68: 28

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

STATE DEPARTMENT
Washington, DC 20520

Background notes. ([Office of Media Services, Bureau of Public Affairs.])
[Issued with perforations.] * Paper, \$3.50 per yr., \$3.00 additional for
foreign mailing; single copies, each 10c. ● Item S62-B

- 17398 Japan [with reading list]. [Revised Sept. 1969.] Sept. 1969. 12 p. il. 4° ([Pub-
lication 7770.]) S 1.123 : J 27/969
L.C. card 66-61561
- 17399 People's Republic of Bulgaria [with reading list]. [Revised Aug. 1969.] [1969.]
6 p. il. 4° ([Publication 7882.]) S 1.123 : B 87/969
L.C. card 66-61561
- 17400 Republic of Singapore [with reading list]. [Revised July 1969.] July 1969. 7 p.
il. 4° ([Publication S240.]) S 1.123 : Si 6/969
L.C. card 66-61561
- 17401 Trucial Shaikhdoms [with reading list]. [Revised Aug. 1969.] [1969.] 4 p. il.
4° ([Publication 7901.]) S 1.123 : T 76/969
L.C. card 66-61561
- 17402 Union of Burma [with reading list]. [Revised Aug. 1969.] [1969.] 6 p. il. 4°
([Publication 7931.]) S 1.123 : B 92/969
L.C. card 66-61561
- 17403 Foreign Affairs Research Documentation Center, special papers available :
East Asia and Pacific area. Oct. 1969. cover title, [2] leaves+79 p. 4°
(Office of External Research.) [List of recent publications issued by
Office of External Research, on p. 3 of cover.] ‡ S 1.126/2 : Ea 7

General foreign policy series. ● Item S75 S 1.71 : (nos.)

- 17404 235. Issues in United States foreign policy, no. 3: Commitments of U.S. power
abroad. [Oct. 1969.] cover title, 20 p. il. 4° ([Publication 8488; Office
of Media Services, Bureau of Public Affairs.]) [Maps on inside of front
and back covers.] * Paper, 40c.
L.C. card 77-604412
- 17405 236. Two weeks in summer of 1969 President Nixon talked from Washington to
1st man on moon, welcomed them aboard U.S.S. Hornet in Pacific, con-
sulted with leaders in Asia, made historic trip to Romania, and
completed flight around earth. [Oct. 1969.] 36 p. il. narrow 8° ([Publica-
tion 8493; Office of Media Services, Bureau of Public Affairs.])
[Illustrations on p. 2-3 of cover.] * Paper, 65c.
L.C. card 78-604415
- 17406 239. Discussion guide issues, no. 3: Commitments of U.S. power abroad. Oct.
1969. [4] p. 4° (Publication 8498; Office of Media Services, Bureau of
Public Affairs.) * Paper, 10c.

International boundary study. (Geographer [Office of Strategic and Func-
tional Research], Bureau of Intelligence and Research.)

- 17407 91. Dahomey-Nigeria boundary. Oct. 15, 1969. cover title, [2] leaves+21 p. il.
4° (Office of Research in Economics and Science.) † S 1.119/3 : 91

Treaties and other international acts series. * Paper, \$15.00 a yr. (ap-
proximately 150 issues), \$7.00 additional for foreign mailing; single
copies vary in price. (Issues of \$1.00 or more are not furnished as part
of the subscription.) ● Item S99 S 9.10 : (nos.)

- 17408 6678. Defense, basic pilot training aircraft, agreement between United States
and Indonesia effected by exchange of notes, signed Djakarta Apr. 9 and
17, 1969; [entered into force Apr. 17, 1969]. [1969.] [2]+2 p. * Paper,
10c.
L.C. card 74-603780
- 17409 6733. Cultural relations, American and Romanian libraries, understanding be-
tween United States and Romania signed Bucharest Aug. 3, 1969; [en-
tered into force Aug. 3, 1969]. [1969.] [2]+5 p. [English and Romanian.]
* Paper, 10c.
L.C. card 72-603943
- 17410 6740. Marine matters, deployment of U.S.S. Yosemite and U.S.S. Grand Canyon
to Malta, agreement between United States and Malta effected by ex-
change of notes signed Valletta June 6 and 18, 1969; [entered into force
June 18, 1969]. [1969.] [2]+5 p. * Paper, 10c.
L.C. card 79-603942
- 17411 6744. Extradition, continued applications to Singapore of United States-United
Kingdom treaty of Dec. 22, 1931, agreement between United States and
Singapore effected by exchange of letters signed Singapore Apr. 23 and
June 10, 1969; [entered into force June 10, 1969]. [1969.] [2]+2 p.
* Paper, 10c.
L.C. card 76-603944
- 17412 6745. Investment guaranties, agreement between United States and Western
Samoa, signed Wellington and Apia June 5 and July 22, 1969; [entered
into force July 22, 1969]. [1969.] [2]+3 p. * Paper, 10c.
L.C. card 73-603946

ΦFor Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

Treaties and other international acts series—Continued

- 17413 6748. Amendment of articles of agreement of International Monetary Fund, between United States and other governments, approved by Board of Governors of International Monetary Fund, Washington, May 31, 1968; [entered into force July 28, 1969.] [1969.] [2]+29 p. * Paper, 20c. L.C. card 79-604312
- 17414 United States treaties and other international agreements: v. 19, pt. 4, 1968. [1969.] ix+4089-5412+v p. large 8° [Includes treaties and other international acts series 6426-6522. Text in English and other languages]. * Cloth, \$12.25. ● Item 899-A
L.C. card 53-60242 S 9.12: 19/pt.4

TARIFF COMMISSION Washington, DC 20436

- 17415 Buttweid pipe, workers of Weld Mill, Ambridge, Pa., plant, Armco Steel Corporation, report to the President on investigation TEA-W-8 under sec. 301(c) (2) of Trade expansion act of 1962. Nov. 1969. [4]+49 p. 4° (TC publication 297.) † TC 1.2: P 66/2
- 17416 Synthetic organic chemicals, United States production and sales of dyes, 1968, preliminary. Nov. 1969. cover title, [1]+45 p. 4° † TC 1.33/2: D 98/968
- 17417 Transmission towers and parts, certain workers of Shiffler Plant, Pittsburgh, Pa., and Maywood Plant, Los Angeles, Calif., of America Bridge Division, United States Steel Corporation, report to the President on investigations TEA-W-9 and TEA-W-10 under sec. 301 (c) (2) of Trade expansion act of 1962. Nov. 1969. [3]+44 p. 4° (TC publication 298.) † TC 1.2: T 65/3

TENNESSEE VALLEY AUTHORITY Washington, DC 20444

- 17418 Forest industry manpower training needs in Tennessee Valley region. [1969.] cover title, [2]+10 p. 4° ([Division of Forestry Development.]) † Y 3.T 25: 27 F 76/14

TRAINING AND EMPLOYMENT SERVICE, Labor Dept. Washington, DC 20210

NOTE.—The Training and Employment Service was established within the Labor Department's Manpower Administration.

Industry manpower surveys.

- 17419 116. Nursing homes and related health care facilities [by Alan L. Moss and Robert L. Miller]. [1969.] cover title, vi+26 p. il. oblong 12° † ● Item 756-E L 34.10: 116
- 17420 Suggestions for using interviewing guides for specific disabilities. [1969.] † p. ([Manpower Administration.]) † L 34.8: Su 3/969

TREASURY DEPARTMENT Washington, DC 20220

- Department circular, public debt series. † ● Item 924 T 1.4/3: (nos.)
- 17421 7-69. 7¼ percent treasury notes of series A-1973, dated and bearing interest from Oct. 1, 1969, due May 15, 1973. Sept. 18, 1969. 2 p. 4°
- 17422 8-69. 7½ percent treasury notes of series C-1976, dated and bearing interest from Oct. 1, 1969, due Aug. 15, 1976. Sept. 18, 1969. 2 p. 4°
- 17423 Excerpts from remarks by Henry C. Wallich at Public Utilities Conference of First National Bank of Chicago, Chicago, Ill., Oct. 6, 1969. [1969.] 6 p. 4° (K-227.) † T 1.31: W 157
- 17424 Federal credit programs in the 1970's, remarks by Bruce K. MacLaury, Deputy Under Secretary of Treasury for Monetary Affairs before 16th annual Bankers' Forum, Georgetown University, Oct. 4, 1969. [1969.] 15 p. 4° (K-230.) † T 1.31: M 22

*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 17425 Managing the modern public sector, remarks of Murray L. Weidenbaum, Assistant Secretary of Treasury for Economic Policy before annual conference of International City Management Association, New York City, N.Y., Oct. 13, 1969. [1969.] 15 p. 4° (K-237.) † T 1.31: W 42/4
- 17426 Remarks by David M. Kennedy, Secretary of Treasury before Business Council, Hot Springs, Va., Oct. 17, 1969. [1969.] 15 p. 4° (K-241.) † T 1.31: K 38/12
- 17427 Statement by Honorable David M. Kennedy, Secretary of Treasury, before Subcommittee on Fiscal Policy of Joint Economic Committee, Oct. 7, 1969. [1969.] 7 p. 4° (K-232.) † T 1.31: K 38/11
- 17428 Tax reform and economic policy, remarks of Murray L. Weidenbaum, Assistant Secretary of Treasury for Economic Policy, before Manufacturing Chemists Association, Washington, D.C., Oct. 6, 1969. [1969.] 17 + [2] p. il. 4° (K-228.) † T 1.31: W 42/5
- 17429 Tax reform legislation in 1969, remarks by John S. Nolan, Deputy Assistant Secretary for Tax Policy before 24th annual conference of Tax Executives Institute, Atlantic City, N.J., Oct. 6, 1969. [1969.] 22 p. 4° (K-233.) † T 1.31: N 71

UNEMPLOYMENT INSURANCE SERVICE, Labor Dept.
Washington, DC 20210

NOTE.—The Unemployment Insurance Service was established within the Labor Department's Manpower Administration.

- 17430 Unemployment insurance, State laws and experience; [prepared in Division of Program Research, Office of Actuarial and Research Services]. Revised 1969. [1969.] [31] leaves, il. oblong 8° † ● Item 783-E-1 L.C. card L 61-38 L 33.2: St 2

UNITED STATES TRAVEL SERVICE, Commerce Dept.
Washington, DC 20230

- 17431 Proposed remarks of United States Travel Service Director C. Langhorne Washburn before USTS/ALTA Visit USA Sales Seminar, Oct. 16, 1969 at Amsterdam Hilton. [1969.] 8 + [1] p. 4° † C 47.9: W 27/3
- 17432 Remarks of C. Langhorne Washburn, Director of United States Travel Service, before 14th annual convention of Society of American Travel Writers, Oct. 9, 1969, Las Vegas. [1969.] 9 p. 4° † C 47.9: W 27/2

URBAN MASS TRANSPORTATION ADMINISTRATION, Transportation Dept., 800 Independence Ave. S.W., Washington, DC 20590

NOTE.—The Urban Mass Transportation Administration was established as a component of the Department of Transportation by section 3 of the President's Reorganization Plan 2 of 1968, effective July 1, 1968.

- 17433 Directory of research, development & demonstration projects [fiscal year] 1969. [1969.] cover title, vii + 165 p. 4° [MITRE Corporation has provided assistance in preparation of this document in performance of technical support to UMTA under UMTA Technical Instruction MITRE 69-5.] † ● Item 982-H L.C. card 75-604441 TD 7.9: 969

VETERANS ADMINISTRATION
Washington, DC 20420

- 17434 Transactions of 28th VA-Armed Forces Pulmonary Disease Research Conference held Jan. 20-22, 1969, Cleveland, Ohio, by Veterans' Administration [and] Armed Forces with cooperation of National Tuberculosis Association [with lists of references; prepared and edited by VA Department of Medicine and Surgery and VA Hospital, Cleveland, Ohio]. [1969.] cover title, xviii + 108 p. il. 4° [Formerly Conference on Chemotherapy of Tuberculosis.] † ● Item 988-A L.C. card 49-47044 VA 1.40/2: 969

☛For Sale by Clearinghouse, U.S. Department of
Commerce, Springfield, Va. 22151
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

VA pamphlets. † ● Item 988

VA 1.19: (nos.)

- 17435 10-55. Dietetics in Veterans Administration, career opportunities in VA hospitals nationwide, for dietitians, dietetic interns, dietetic assistants. [Revised edition]. [Aug. 1969.] cover title, 16 p. ll. [Table of contents on p. 2, text on p. 3 of cover. Supersedes VA pamphlets 10-55, Dietitians in Veterans Administration hospitals and clinics—nationwide, 10-44, Opportunities for modern dietitian, and 10-42, Dietetic Internship in Veterans Administration.]
- 17436 10-87. Could you use a multimillion dollar customer? VA invites you to submit your product or service. [Aug. 1969.] [1]+11+[2] p. ll. oblong 24° ([Supply Service, Department of Medicine and Surgery.]) [Rescinds VA pamphlet 10-87, Nov. 1967.]

WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS, Labor Dept, Washington, DC 20210

- 17437 Guidelines for seasonal industry determination for fresh fruit and vegetable industry. July 1969. [7]+21 p. (WHPC publication 1270.) † ● Item 777-B L 22.33: F 94

WEATHER BUREAU, Commerce Dept. Washington, DC 20235

Hydrometeorological report.

- 17438 45. Probable maximum and TVA precipitation for Tennessee River basins up to 3,000 square miles in area and durations to 72 hours with list of references; prepared by Francis K. Schwarz and Norbert F. Helfert. May 1969. vii+166 p. ll. map, 4° (Tennessee Valley Authority contract TV-23942A.) [Map is colored.] * Paper, \$1.75. ● Item 275-A C 30.44: 45
- 17439 Key to aviation weather reports [and Key to aviation weather forecasts]. Revised July 1969. [1969.] [2] p. oblong 32° * Paper, \$2.25 per 100; single copy, 5c. ● Item 275 C 30.2: Av 5/969

WOMEN'S BUREAU, Labor Dept. Washington, DC 20210

- 17440 Fact sheet on trends in educational attainment of women. Aug. 1969. [2] p. 4° ([WB-70-10.]) † L 13.2: Ed 8/5/969
- 17441 Facts about day care; prepared by Beatrice Rosenberg. [Oct. 1969.] 9 p. 4° ([WB 70-23.]) † ● Item 782 L 13.2: D 33/4
- 17442 Facts about women's absenteeism and labor turnover. [1969.] [3]+9 p. 4° † ● Item 782 L 13.2: Ab 8/3/969
L.C. card 78-604301
- 17443 Report of conference, job horizons for women and girls in District of Columbia, Dec. 6-7, 1968, Washington, D.C. [1969.] cover title, v+57 p. 4° [Community conference cosponsored by D.C. Commission on Status of Women, Vocational Education Department, Pupil Personnel Services Department, D.C. Public Schools. Illustration on p. 2 of cover.] † ● Item 782 L 13.2: W 84/48
L.C. card 71-604353

*For Sale by Superintendent of Documents
†Distribution Made by Issuing Office
‡Official Use. Not Available

Index

MONTHLY CATALOG JANUARY-DECEMBER 1969

NOTE.—Entries appear in this Index under subjects or titles. Bulletins, circulars, etc., having no specific subjects are entries under the issuing office only. Index citations are to entry numbers in the catalog.

A

A.E.C., *see* Atomic Energy Commission.
 A.I.D., *see* International Development Agency.
 A.M.C., *see* Army Material Command.
 A.R.S. series, 2-9
 A.S.C.S., *see* Agricultural Stabilization and Conservation Service.
 Aamot, Haldor, W. C.:
 buoyancy stabilized hot point drill for glacier studies, 135
 winding long, slender coils by orthocyclic method, 7649
 Aandahl, Fredrick, foreign relations of United States, conferences at Washington and Casablanca, 2486
 Aase, James H., field investigation and testing of Minnesota clay resource for iron ore pellet bonding, 2173
 AASHO, *see* American Association of State Highway Officials.
 AB, *see* Public assistance.
 Abadi, Victor, relief, 6741
 Abandoned Lands, Refugees, and Freedmen Bureau, *see* Refugees, Freedmen, and Abandoned Lands Bureau.
 Abbott, C. G., long-range forecast of temperature for 19 United States cities, 11663
 Abbott, Geraldine W., agriculture in Australia with emphasis on trade with Far East countries, 9643
 Abbott, W. H., metallurgical characteristics and performance of materials used for sliding electrical contacts, 17207
 Abbott, William B., jr., gyratory compaction of soil, pit-run clay gravel, data report, 1829
 Abbreviations:
 abbreviations and definitions for use in emergency transportation planning, 10435
 Air Force manual, 13610
 contractions used by FAA, air traffic control, etc., handbook, 1554, 6423, 15025
 Federal aviation regulations, 4233, 11042
 nautical chart symbols and abbreviations, chart, 9194
 Abdalla, Kaleel L., vapor ingestion phenomenon in weightlessness, 10130
 Abele, Gunars:
 design criteria for snow runways, 3750
 experimental snow runway pavement in Antarctica, 3749
 Aberdeen, Idaho, records of observation wells and water-level fluctuations, 8357, 14355
 Abernethy, Roy F.:
 colorimetric method for arsenic in coal, 974
 major ash constituents in U.S. coals, 7213
 spectrochemical analyses of coal ash for trace elements, 13025
 Aberrations, *see* Distortions.

Ability:
 developing human resources, AEC contractors' affirmative action programs, 15079
 HRD employability model, guidelines, 4196
 human resources
 emphasis on adjustment for potential mechanization in flue-cured tobacco industry, 15618
 rural southeast Coastal Plain, characteristics with emphasis on poor, 8151
 see also Examinations.
 Abingdon, Va., railroad accident, report, 15725
 Ablating materials:
 ablating thermostructural panel, structural synthesis of, 4662
 candidate ablation materials for planetary-entry-vehicle heat shields, radiotemperature transmission characteristics, 2235
 chemical equilibrium, including condensed species, 14636
 comparative evaluation in arc plasma jets, 2190
 pyrolysis-gas flow through char layer during ablation simulation, 16197
 radio frequency transmission characteristics, 1102
 Ablation:
 ablating and nonablating cones, upwash patterns at hypersonic speeds, 13121
 gas flow—
 multidimensional, through permeable char layers and its effect on ablation, 4752
 pyrolysis, through char layer during ablation simulation, 16197
 injectors and ablative thrust chambers for flex-propane rocket engine with 1.2 inch throat diameter, 11496
 product adsorption and line transitions on shock layer radiative transport, effect, 5974
 wedge-induced laminar-boundary-layer separation at moderate enthalpies in hypersonic flow, effects on, 2226
 Ablators, low-density phenolic-nylon, study of performance, 11472
 Ables, Jackson, H., jr., filling and emptying system, Dardanelle Lock, Arkansas River, hydraulic model investigation, 9717
 ABM, *see* Missiles.
 Abort, space vehicle flight control systems, analysis and design, 10068
 About census '70, 13732
 Abraham Lincoln Birthplace National Historic site:
 administrative history, 8714
 general information, 8711
 Abrahamson, John D., westward Alaska, native economy and its resource base, 14201
 Abrasive materials, minerals yearbook chapter, 17168

Abrasives:

Federal item identification guides, 15496
for supply cataloging, supplements, 2848
trade and tariff information, summaries,
13500

Abreu, Carlos M. Perez, *see* Perez-Abreu,
Carlos M.

Absenteeism, women, facts, 17442

Absorption:

absorption and line transitions, of ablation
product, on shock layer radiative trans-
port, effect, 5974
acoustical absorption properties of wood-
base panel materials, 15761
electromagnetic waves in strongly inho-
mogeneous plasma, 16614
optical, in fused silica during TRIGA pulse
irradiation, 1015
plasma absorption of high-frequency
energy near lower hybrid frequency,
15068
rate sticking probabilities for oxygen on
columbium and dilute columbium-zirc-
onium alloys, 1105, 4703
solar, and spectral reflectances for 12
metals for temperatures ranging from
300 to 500 K, 13128
theoretical molecular line absorption of
CO in late spectral type atmospheres,
2222
thermal neutron cross sections, empirical
approach, 2359

see also Atomic absorption
Absorption spectrometry, *see* Spectrometry.
Abstracts, *see* names of departments, bu-
reaux, etc., issuing abstracts—*also*
subjects.

Abutan, Josefina P., *see* Fullar, Josefina
P. A.

Academic freedom, *see* Teaching.

Academic preschool, Champaign, Ill. 6889
Academician Bilibin discusses medical eth-
ics, USSR, 5836

Academy of Agricultural Sciences, USSR,
proceedings, 15942

Academy of Medical Sciences, USSR:
roster of nominees for membership, 15903
vestnik (periodical), 3573

Academy of Sciences, Azerbaydzhan SSR:
elects new members, 5822
new candidates, 12909

Academy of Sciences, Belorussian SSR, his-
tory and activities, outline, 15981

Academy of Sciences, Kazakh SSR, acad-
emician Skryabin feted for contributions to
helminthology, 2080

Academy of Sciences, Tadzhik SSR, biology
department, 1967 report, 5873

Academy of Sciences, Ukrainian SSR:
activities, 15912
newspaper articles, 15969
president interview, 12906

Academy of Sciences, USSR:
experiments with electronic techniques,
15971

general information, 12887
history and work, brief account, 7156
Siberian Division, report on, 15965
vestnik (periodical), 3574

Academy of Sciences, Uzbek SSR:
foundation and development related, 4447
Institute of Chemistry of Plant Substances,
Party unit's role praised, 17130

Acadia Job Corps Civilian Conservation Cen-
ter, effectiveness and administration, under
Economic opportunity act of 1964, GAO
report, 12733

Acanthocephala, parasite subject catalog,
13543

Acceleration:

angular, head position on habituation of
vertical nystagmus, 209
human performance and physiology, effects
with special reference to transverse G,
81

Acceleration—Continued

relation of signal light intensity to phys-
iologic end points during +G_x accelera-
tion, 88

solid propellants under acceleration, ex-
perimental investigation of effect of
aluminum size and loading on burning
rate, 16163

steady-state acceleration effects on com-
bustion characteristics of aluminumized
composite solid propellant, 2233

Accelerators:

circulating currents in linear crossed-field
generators and accelerators, 10147
design, principles, etc., use in nuclear re-
search, 7720

electron linear, medium energy nuclear
physics, MIT 1967 summer study, 1605
high energy lateral shielding requirements,
tables for determination, 5153

National Accelerator Laboratory ground-
breaking ceremony (remarks), 204
1000 GEV cybernetic proton accelerator,
1596

particle accelerators—
recommendations for safe operation,
4884

safety manual, 6192
Particle Accelerator Conference, accelera-
tor engineering and technology, 1969,
abstracts, 6036

plasma, with magnetic field arranged to
produce divergent-nozzle effect, 7289

problem of current limits in accelerators
and stability of nonuniform electron
beams, 15067

six billion electron-volt electron accelera-
tor, USSR study, 4445

small, use for teaching and research, con-
ference proceedings, 3796

Accelerometers:

angular, SH-type seismic shear waves
detected by means of, 12780

piezoelectric computing useful frequency
range, considerations, 11525

Access openings, *see* Closures.

Access roads, *see* Roads and highways.

Accessions index, lists, etc., *see* Library
accessions.

Accident insurance, consumer credit insur-
ance transactions, protect from abuses
relative to excessive charges, hearings,
15418

Accidents:

and incidents involving shipment of haz-
ardous materials, study of uniform re-
porting system for all modes of trans-
portation in reporting, 14721

annual control report, Sport Fisheries and
Wildlife Bureau, 16441

handle yourself with care—
accident prevention for older Ameri-
cans, 6353

instructor's guide for accident preven-
tion course for older Americans, 5018

longshoring, 1966-67, analysis of injuries,
7168

operational accidents and radiation ex-
posure experience, 1943-67, Atomic
Energy Commission, 5188

Prevention—

Health, Education, and Welfare Depart-
ment program (remarks), 11635, 16335
program (remarks), 13365

radiation accident cases, emergency han-
dling, 11966-969

recreational boat accidents, boating safety
programs, and preventive recommenda-
tions, study, 13207

shipyard injuries, analysis, 8544

Accidents *see also* Aircraft accidents—
Injuries—Marine accidents—Mine ac-
cidents—Motor vehicle accidents—Railroad
accidents—Safety of life—Spacecraft
accidents.

Acclimatization:
body armor in hot humid environment, studies in heat acclimatized men, 16057
fish, replenishment of stocks in USSR waters, 12942
man under water, USSR study, 12949

Accountants:
are accountants responsible for balance of payments deficit? (address), 1630
careers with—
Interstate Commerce Commission, 11313
Rural Electrification Administration, 8841
employment outlook, 4473
pay, national survey, 4597

Accounting, *see* Accounts and accounting.

Accounting machines:
current industrial reports, 234
shipments, 1958-67, patterns of industrial growth, 7734

Accounts and accounting:
accounting—
financial management systems series, 6503
periods and methods, tax information, 8445
series releases, SEC, 2549, 13407
accounting and finance manual, DSA, changes, 4126, 10945, 14084
accounting and reporting procedures manual for Project Prime under resource management systems, Army pamphlet, 5112, 9039, 11938

Army—
comptroller, role, in programing, budgeting, and accounting and reporting (PBAR) system, 6433
internal review guide, pamphlet, 142
book value and write-off of facilities, revocation, 4915
carriers by inland and coastal waterways, uniform system, 8493
civilian employees' leaves of absence in military departments, GAO review, 4341
code of Federal regulations, 5621
commercial banks, accounts and deposits, summary—
Atlanta district, 9758
Boston district, 9759
Chicago district, 9760
Columbus district, 9761
Dallas district, 9762
Kansas City district, 9763
Madison district, 9764
Memphis district, 9765
Minneapolis district, 9766
national summary, 9767
New York district, 9768
Philadelphia district, 9769
Richmond district, 9770
St. Louis district, 9772
San Francisco district, 9771
configuration status accounting data elements and related features, military standard, 6841
cost ascertainment system of Post Office Department, selected studies, 10800
Engineers Corps, financial administration, accounting and reporting, civil works activities, 8180
Federal agency accounting systems as of Dec. 31, 1968, progress and problems relating to improvement, GAO report, 15786
Federal credit unions, manual, 9751
Federal property, mechanized supply and accounting procedures for office of United States property and fiscal officers (USPFO), 7339
GAO review (periodical), 2932
General Accounting Office policy and procedures manual for guidance of Federal agencies, 2934
joint financial management improvement program, annual report, 4337

Accounts and accounting—Continued
medical care cost accounting system, Veterans Administration improvements made, GAO report, 14319
motor carriers of property, uniform system, 15896
mutual savings banks, accounts and deposits, summary, 9773
natural gas companies, uniform system of accounts prescribed for, 4271
professional challenge and growth for accounting majors, Federal Highway Administration, 15703
uniform system of accounts—
and reports for certificated air carriers, 3545, 6513
FCC rules and regulations—
radiotelegraph carriers, 1860, 2836
wire-telegraph and ocean-cable carriers, 1860, 2836
telephone companies, 2835
see also Budget of United States.

Accumulators, simplified analytical model for use in design of pump-inlet for prevention of liquid-rocket longitudinal oscillation (pogo), 14638

ACDA, *see* Arms Control and Disarmament Agency.

Acetazolamide, low doses, psychomotor effects in aiding accommodation of men to altitude, 99

Acetic acid, thermal stability of ethylenedinitrilotetraacetic acid and its salts, rate of decomposition in aqueous solution determined by NMR techniques, 1267A

Achievement:
achievements and challenges, HEW forum papers, 4373
achievements and problems of Central American Common Market, 7487
predicting 1st year, of Air Force Academy cadets, 3676

Acid mine drainage, *see* Mine drainage.

Acidosis, stress response in chronic hypercapnia, 919

Acids:
inorganic, properties of common commercial types, 17146
reactivity and interaction of, spectral characteristics, USSR study, 836
salivary acid-base levels during exposure to elevated carbon dioxide atmosphere, 5929
table for converting pH to hydrogen ion concentration $[H^+]$ over range 5-9, 9089
see also names of acids.

ACIR, *see* Advisory Commission on Intergovernmental Relations.

Acorns, moisture content critical for cherry-bark oak germination, 4309
see also Oak.

Acoustic waves, *see* Waves.

Acoustical flows, *see* Flow.

Acoustics, *see* Noise—Noise suppressors—Sound.

ACP, *see* Agricultural conservation program.

Acreage allotments, *see* Agricultural products—*also* names of products.

Acreage limitation amendments, 14039

Acreage marketing guides, 503, 4102, 6804-5, 14063

Actinomycins, action of actinomycin 2703 on RNA metabolism or spinal motoneurons under conditions of hyperfunction, histochemical data, USSR study, 843

Actions at law:
aircraft crash litigation—
create exclusive Federal jurisdiction, etc., proposals, hearings, 5453
provide Federal jurisdiction and body of uniform Federal law, hearings, 12306
highway condemnation law and litigation State by State, summary of cases reported, 1946-61, lists, 1360

Actions at law—Continued

- litigation releases, Securities and Exchange Commission, 3079
- service abroad of judicial and extrajudicial documents, convention, 6303
- Activated carbon, *see* Carbon.
- Activation analysis, *see* Radioactivation analysis.
- Activated Analysis Section, summary of activities, 7324
- Acts of Congress, *see* Law.
- Actuarial notes, 1386-87, 6227-29, 8854, 10366, 11664, 13435, 14861-863, 16409-410, 17380
- Actuarial study series, 7457, 16411
- Actuaries, employment outlook, 4521
- Actuators:
 - fluidic-controlled pneumatic stepping-motor system, 2 integrated circuits, design and performance, 7301
- NERVA control drum actuator Irradiation test programs, 13122
- Acuity:
 - comparison of 7 systems for air conduction audiometry from 8-20 KC/S, 13000
 - duction, relation to dynamic stereoacuity, 16066
 - monocular recognition of letters and Landolt Cs in left and right visual hemifields, 10047
 - near visual, under low-level red and white light, 3715
 - stereoscopic and resolution, with varying field of view, 7201
- visual—
 - and visibility of markings on ground in long-duration earth-orbital space flight, experiments, 2183
 - under water without face mask, 16069
- Aculeata, *see* Bees—Wasps.
- Acute somatic effects in primates of protons to 400 MeV, 82
- Ad Hoc Group on Population Research, report, Federal program in population research, 16396
- Adair, Ralph B., flotation of muscovite from Alabama graphitic-micaschist ore, 10064
- Adams, A. N., observations made with 6-inch transit circle 1956-62 of sun, etc., 14724
- Adams, Bert N., and wife, relief, 13897
- Adams, G. W., solar proton monitoring system, 14170
- Adams, James A., density gradients near liquid/air interface, 14742
- Adams, James J.:
 - application of human transfer functions to system analysis, 17229
 - synthesis of human response in closed-loop tracking tasks, 1074
- Adams, Jim D., reliability handbook for silicon monolithic microcircuits, 10085
- Adams, John G., remarks, Nov. 21, 1968, 257
- Adams, Tenn., motor carrier accident report, 11396
- Adams Bayou, flood plain information, 12476
- Adams National Park Historic Site, general information, 8712
- Adapters, spacecraft region method for predicting launch vehicle vibration levels, 4665
- Adaptive systems, *see* Control systems.
- Adaptive techniques for synthetic flight training systems, 2348
- Adas Israel Synagogue:
 - lease to Jewish Historical Society of Greater Washington—
 - law, 16734
 - reports, 13865, 13989
- Addicts, *see* Narcotic habit.
- Address (mail matter), *see* Mail matter.

Addresses, lectures, etc.:

- by—
- Adams, John G., 257
- Addinson, Burton W., 7446
- Allen, James E., Jr., 9657, 10978, 10980, 10990, 12441, 14132, 14140, 15630, 15635, 15641
- Andrews, Archie M., 821, 9986
- Astlin, Allen V., 8670
- Baker, John A., 25, 37, 59-60
- Baranowski, Frank P., 197
- Barr, Joseph W., 2529-30
- Bartlett, Joseph W., 1662-63
- Bates, George P., Jr., 11925
- Bentley, Helen D., 15715-716
- Blenstock, Herbert, 14462
- Blibin, A., 5836
- Blackwell, Robert J., 10043, 16050, 17165
- Blount, Winton M., 8770, 14772, 16331
- Blum, Jerome B., 15713
- Blunt, William W., Jr., 16937
- Borum, Rodney L., 212A
- Bowman, Roy G., 16048
- Boyd, Alan S., 2518
- Brandt, Willy, 8883
- Brenner, Edward J., 1275, 1298, 8769
- Brimmer, Andrew F., 650, 652, 655-656, 1885-86, 4282, 8240, 8243-44, 9823, 11133, 12636, 12648, 14227, 15734
- Brosio, Manlio, 8883
- Brown, Lester R., 8458
- Browne, Secor D., 15125-127, 16672-673
- Brownstein, P. N., 767
- Bruce, Louis R., 15847
- Cadle, Don D., 5293
- Campbell, Carlos C., 17091
- Campbell, J. Phil, 10474, 10496, 14983
- Carpenter, Mrs. Scott, 8783
- Chartener, William H., 308, 317, 1650-51, 1664, 3906-8, 7795-96, 7798, 10641, 12067, 13809
- Childs, J. T., 13205
- Clifford, Clark M., 4146
- Cohen, Edwin S., 14950, 16515
- Cohen, Manuel E., 17368
- Condon, Lester P., 15825, 17089
- Costagliola, Francesco, 5189, 6480
- Cox, Lawrence M., 15824, 15841-842
- Crooker, John H., Jr., 6512, 9174, 10616, 12024-25
- Daaue, J. Dewey, 5645 15727
- Davis, Arthur A., 783
- Davis, Howard P., 3669
- Davis, Kenneth N., Jr., 9215, 10643, 15165
- Day, James V., 1871, 5612
- Deming, Frederick, L., 1477, 1480, 7552
- Dickey, James, 908
- Dunne, Thomas P., 13802, 16944
- Dyer, Lionel R., 6997
- Eggers, Paul W., 16517
- Evans, John E., 778
- Fagan, Charles A., III, 16943
- Fanning, John H., 2310, 8702
- Fansen, James F., 640, 5613-14, 6946, 15712
- Faulkner, Rafford L., 1609, 16634
- Finger, Harold B., 12808
- Fletcher, Arthur A., 15996
- Fowler, Henry H., 1479, 2521
- Freeman, Orville, L., 26, 7582-83
- Gallagher, Ursula M., 3865-66
- Gibson, A. E., 8569-70, 10042, 10044-45, 11365-366, 12994-995, 14487-488, 16049, 17164
- Gilliland, Whitney, 9175, 15129, 16675
- Gulick, James W., 915-916, 2129, 5925
- Haar, Charles M., 784, 786, 7078
- Hardin, Clifford M., 7614
- Harlem, Gudmund, 10289
- Harlee, John, 1869-70, 5610, 8209, 11065, 14208
- Hearn, George H., 639, 4259, 6945, 8210, 14210, 16992-993

Addresses, lectures—Continued
by—continued

Heatherington, Donald F., 6998
Henderson, John B., 5285, 15178
Hendrick, James P., 4994
Hickel, Walter J., 5758-59, 7091, 8414,
9953, 11278, 15852
Hirschberg, Robert L., 4422
Hofe, G. Douglas, 17316A
Hoover, I. H., 15680
Howe, Harold, II, 582, 589, 1814
Hummel, Don, 763, 766, 780, 1995
Hyde, Floyd H., 8391, 14383, 15823
Hyde, Rosel H., 11052
Irving, George W., jr., 3630
Jacklin, H. M., jr., 16241
Jackson, Samuel C., 8390, 12818
Jenkins, I. C., 14813
Johnson, Charles C., jr., 2411, 10302,
10307, 10328-331, 11627, 11634,
13343, 13364-367, 13371A, 16337,
16348, 16364, 16368, 17353
Johnson, Wilfred E., 205 9084, 10576
Katz, Jacob E., 213, 13728, 16643
Kennedy, David M., 2528, 6329-30,
8920-22, 10437, 10439, 10441, 14951,
17426-427
Kincaid, John F., 310
Kingman, Woodward, 12806-807, 17078
Klein, Carl L., 8413
Koontz, Elizabeth D., 8938
Larson, Clarence E., 15084
Lattu, Onnie P., 793
Leonard, Rodney E., 3670
Lewis, Charles A., 214-215
Lynn, James T., 16698
McGuire, Marie C., 769, 782, 14385,
15826
McGuire, R. C., 13647
MacLaury, Bruce K., 17424
McLellan, Robert, 12066, 15177, 16702
McQuade, Lawrence C., 1653
Maisei, Sherman J., 651, 5640, 8239,
8241, 8252, 17000-1
Martin, Preston, 6944, 8208, 9776,
11060, 15704
Martin, William McC., jr., 9825, 12649,
17002
Mazure, James E., 14211
Meier, Robert W., 14937
Meissner, William A., jr., 1611, 11310
Middleton, John T., 4869, 10322-323,
13363
Miller, C. O., 17297
Minetti, G. Joseph, 256
Mitchell, George W., 653, 5641, 6976,
8245, 15726, 16998
Moore, Cordell J., 2002
Murphy, Robert T., 15128, 15130
Mutter, H. B., 14209, 15714
Nehmer, Stanley, 13807, 15166, 16710
Nolan, John S., 17429
O'Connell, Joseph J., jr., 2324
Owens, James M., 5200
Padrick, Jack O., 10644
Palmbly, Clarence D., 14982
Peterson, Esther, 876
Podesta, Robert A., 12065, 12387, 12395,
16936
Porter, Paul R., 9983
President Johnson, 1440, 1442, 1883-84,
3951, 5388, 6273
President Nixon, 7486, 8883, 10410,
11706, 16468
Ramey, James T., 207, 6478-79, 9083,
10571, 10574, 13722, 13725, 16632-
633
Reed, John H., 7365, 11558, 13204
Riee, Dorothy P., 16412
Richardson, Elliot L., 16465, 16469
Robertson, J. L., 657, 8236, 8250, 9824,
12638
Rogers, William P., 8881, 8883, 16464
Romney, George, 5737-38, 7068, 9942,
17076, 17079
Rosfeld, A. E., 764

Addresses, lectures—Continued
by—continued

Ross, William B., 14382
Rossides, Eugene T., 10440
Russell, Harold, 1319
Sandoval, Hilary, jr., 8849
Schmeltzer, Edward, 5611
Schneibacher, E. E., 819-820, 2022-23,
5802, 7118, 9982, 15888, 15891
Schnittker, John A., 27, 61, 3631
Schoonover, David M., 5532
Schultz, George P., 10009
Schuyler, William E., Jr., 13317, 17318-
319
Scott, Harold B., 17104
Seaborg, Glenn T., 198-199, 202-204,
208, 1608, 3817-18, 5186, 5191, 6476,
7716-17, 8882, 9087, 10572, 10575,
10577, 11965, 13723, 15078, 15082-83
Shultz, George P., 7162, 8537-39, 14438,
15998, 16003, 17137
Siellano, Rocco C., 7806, 9212, 15162-
163, 15175, 16703-705
Simmmons, Samuel J., 14384, 15822,
15843, 17088
Smith, C. R., 309, 314-316
Stafford, George M., 4430
Stans, Maurice H., 6538, 6545-46,
7793-94, 7805, 9213, 10638-640,
10660-661, 13808, 15159-161, 15173-
174, 16699-701
Staples, J. Clay, 13645
Stevenson, Albert H., 11616
Stumph, Terry L., 13378
Surrey, Stanley S., 1481, 2527, 2533
Switzer, Mary E., 4927, 4929-30
Tape, Gerald F., 200, 1607, 3816, 7718,
9086
Taylor, H. Ralph, 765, 1993
Thomas, David D., 12597
Thompson, Theos J., 15080-81
Train, Russell E., 15851
Trennel, Ernest B., 201
Tribus, Myron, 7807, 10642, 12071,
13805, 15176, 16709
Turner, F. C., 7437
Udall, Stewart L., 2014
Van Doren, Mark, 10036
Van Dusen, Richard C., 15839-840,
17077, 17090
Venn, Grant, 16955
Volcker, Paul A., 14952, 16518
Walker, Charles E., 8919, 16514
Wallace, Robert A., 2531
Wallach, Henry C., 17423
Walrath, Laurence K., 15894
Washburn, C. Langhorne, 16520, 17431-
432
Watson, W. Marvin, 1300-3, 1307-8,
2388-90, 4851, 7395
Weaver, Robert C., 768, 781, 1985, 1994
Weidenbaum, Murray L., 14953, 16511,
16516, 17425, 17428
Weinberger, Leon W., 6992
Williams, David L., Jr., 15632
Williams, Thomas F., 11635, 16335
Wood, Robert C., 4391
Yaffe, Charles D., 16367
Zagoria, Sam, 2309, 10196, 11546
FMC SP series, 639-640, 1869-71, 4259,
5610-14, 6945-46, 8209-10, 11065,
14208-211, 15712-716, 16992-993
HEW forum papers, achievements and
challenges, 4373
high-energy astrophysics, lectures, 11430
inaugural addresses from President George
Washington to President Richard M.
Nixon, print as House document, report,
10755
MA SP series, 915-916, 2129, 5925, 8569-
70, 10042-45, 11365-366, 12094-995,
14487-488, 16048-50, 17164-165
public speeches of former President Dwight
D. Eisenhower, print as House docu-
ment, report, 10756
see also Lecture method in teaching—
Public speaking.

- Adelaida quadrangle, Calif., Middle Miocene foraminifera and stratigraphic relations in San Luis Obispo County, Calif., 734
- Adelfang, S. I., study of Jiujiang wind profiles as related to space vehicle design and operations, study, 1023
- Adelman, Edwin, indexes of output per man-hour selected industries, 5899
- Adelman, Howard M.:
method for computation of vibration modes and frequencies of orthotropic thin shells of revolution having general meridional curvature, 4710
vibration analysis of 1/40-scale dynamic model of Saturn V-launch-platform-umbilical-tower configuration, 1094
- Adelson, Sadye F., dietary levels of households in United States, 13592
- Aden, Gulf of, sailing directions, change, 6120
- Adhesion:
absorption rate sticking probabilities for oxygen on columbium and dilute columbium-zirconium alloys, 1105, 4703
gold to—
copper and copper-aluminum alloys, LEED study, 13126
various planes of copper studied with LEED, 13094
LEED (low energy electron diffraction) studies of adhesion to—
nickel, (111), surface of, 10149
rhenium, 10143
metals—
self-adhesion of metals, influence of gaseous environment, 1091
surface cleanliness during testing, method for characterizing, 6009
promoters in adhesive bonding, function, 17313
- Adhesive tape, pressure sensitive and gummed, inspection, sampling, and testing methods, Federal standard, 11143
see also Tape.
- Adhesives:
adhesive bonding and miscellaneous chemical manufacture, classification definitions, 2367
barnacle cement as dental restorative adhesive, 1185
behavior in wood sections exposed to fire, simplified test, 4305
electroadhesive devices, applications, study, 1028
Federal item identification guide for supply cataloging, supplements, 2847
films of four adhesives used with wood, stress-strain behavior, 1911
Fokker ultrasonic adhesive bond test, (R), military standards, 10954
gluing fire-retardant-treated Douglas-fir and western hemlock, 4304
using in small plants, 11661
- Adiabatic demagnetization, *see* Cooling.
- Adjutant General's Office:
Army Library—
selected current acquisitions, 3423
selected periodical literature, 3427
- Adkinson, Burton W., talk, Oct. 23-25, 1967, 7446
- Administering the international search, 1275
- Administration, *see* Administrative management.
- Administrative agencies, *see* Government offices.
- Administrative Conference of United States: appropriations, 1970—
hearings, 9331, 10886
law, 16740
reports, 9310, 9312, 10873, 15281
raise ceiling, amend U.S. Code—
hearing, 15464
reports, 9286, 16791
statutory ceiling, remove, hearings, 6723
- Administrative management:
administration and effectiveness of work experience and training project under title 5 of Economic opportunity act of 1964, GAO reports—
Becker and Mahnomon Counties, Minn., 11201
Carroll, Charlton, Lafayette, and Saline Counties, Mo., 12728
Gila River Indian Reservation, Ariz., 11202
Jackson County, Mo., 12729
Kent County, Mich., 7024
Lake County, Ind., GAO, 8327
Los Angeles County, Calif., 11203
Maricopa County, Ariz., 8328
St. Louis City and St. Louis County, Mo., 12730
Wayne County, Mich., 12731
administration deficiencies in Federal insecticide, fungicide, and rodenticide act, hearings, 13930
administrative approaches to staff development in public welfare agencies, 1384
administrative expense of hospital insurance in Canada, 2454
AFROTC management control system, data base, development, 10509
- Air Force—
manual, 13610
scientific and technical officers, improvement of procurement, utilization, and retention of high quality, 79
worldwide personnel data system, 74
- Army
programs, line of balance, AMC pamphlet, 133
supply management and stock fund activities in Korea, improvement needed, GAO report, 12745
- Atomic Energy Commission equipment, GAO report, 5694
biology and medicine research program, administration and management, Atomic Energy Commission, GAO report, 7037
careers—
development, selected references, 14379
Federal Highway Administration, administration majors, 15702
National Institutes of Health, 10190
senior level positions, examination announcement, 5252
census of agriculture, 1964, procedural history, 1629
child welfare services staff development report (series), 10364
civil defense management textbook, 9177
civilian manpower management (periodical), 3023
contractor data and reports, lists, 3687, 11896, 15014
- Defense Department, correspondence courses, Industrial College of Armed Forces, information booklet, 556
defense management education and training catalog, 1767
dental administration, Navy manual, change, 14739
design administration, GSA handbook, 6166
- DoD Contract Management Conference, Contract Administration Services—
computer-communication network, 1776
engineering role, 1777
evaluating contractor performance and capability, 1782
logistic system interfaces, 1781
management science in procurement cycle, 1772
manpower, 1774
operations evaluation, 1771
organization, 1770
pricing, 1783
proceedings, 1769
production surveillance and reporting, 1779
property, 1780

Administrative management—Continued
 DoD Contract Management Conference continued
 quality assurance, 1778
 recommendations, 6831
 resources management, 1775
 techniques, 1773
 Domestic Gold and Silver Operations Office, procedures and descriptions of forms, 13512
 engineering administration, Navy training text, 6132
 executive leadership in public service, 8929
 farm financial management research, theoretical analysis, 570
 Federal Health Programs Service, statistical summary, 6179
 Federal occupational health units, guide, 11602
 Federal programs, improving administration by consolidation of grant-in-aid programs, proposal, 7859
 finding jobs for Negroes, ideas for management, 11331
 fish and resident wildlife on Federal lands, by States, hearings, 461, 5432, 16881
 forms management, records management handbook, 16222
 franchising, management development program, instructor's manual, 4923
 Government—
 departments and agencies, cost reduction and management improvement program, GAO report, 17058
 owned and leased real property overseas, improvements needed in management by State Dept., GAO report, 15782
 parking facilities, improvement in management by General Services Administration, GAO report, 11216
 grants administration—
 manual, 2945
 circular, 2946
 report, 2947
 guidebook for coordinators of management training for small business, 13410
 historic resources management plan, Big Bend National Park, 13188
 ideas for managers, actions for increasing efficiency and economy in management of defense activities, digest, 16921
 improve detaching of civilians employed at military installations, GAO report, 714
 interim management control systems list, 10951
 Internal Revenue Service administrative intern program, 7092
 Keystone Job Corps Center for Women, Drums, Pa., effectiveness and administration, GAO report, 11212
 life cycle management model for Army systems, 140
 local government, administrative personnel, problems, needs, etc., pilot study, 14461
 management—
 aids for small manufacturers, 14855
 controls of quality assurance for Apollo program, review of system, GAO report, 7035
 course program, topic, 4923
 development program, topics, 6224
 improvement, guide, 6181
 literature survey, bibliography, 13064
 operating facility handbook, 11917-918
 systems, regulation and control, USSR study, 15898
 managing emergency preparedness files, Federal vital records program, records management handbook, 8664
 manpower—
 improved management in Federal Government reports, 6644, 10741
 management model, simplified approach, 10507-508

Administrative management—Continued
 military personnel—
 Air Reserve Forces personnel administration, 10513
 policies, digest, Army pamphlet, 6439
 NASA management issuances—
 index, 8588
 master list, 5969
 National Park Service, policies, compilation, historical areas category, 1214
 national park system, policies, reports, 12157-158
 national parks and national monuments of scientific significance, compilation of policies, 1215
 national recreation areas, etc., compilation of policies, 1216
 Navy Dept. design manual, change, 14722
 Navy management review (periodical), 3181
 NDEA title 3, fiscal years 1959-67, management view, 10983
 Neighborhood Youth Corps program in Los Angeles County, Calif., by Labor Department, GAO review, 1950
 New Florence, case study for 1970 censuses of population and housing, administrative requirements and control system, 12018
 omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
 organization and functions of field staff, New Florence, case study for 1970 censuses of population and housing, 7750
 personnel—
 code of Federal regulations, 11111
 literature, 3248
 research reports, 1954-68, abstracts, 16561
 responsible for radiological health programs, directory, 7416, 13338
 personnel management—
 pay, national survey, 4597
 programs, Army pamphlet, planning and evaluation, bibliographic survey, 16593
 series, 5757, 7083, 13794
 training programs for line managers and supervisors, 7784
 perspectives in defense management (periodical), 3249
 planning and administration, training methodology, annotated bibliography, 8819
 pricing in services business, management development program, instructor's manual, 6224
 public management sources, 3343
 RDT & E management guide, Navy Dept., 14758
 research facilities at State agricultural experiment stations, manual, 10478
 resources and work force management, civil engineering, Air Force manual, 7624, 13612
 San Isabel National Forest, impact survey, report of effects of Fryingpan-Arkansas project, 4301
 small business—
 management series, 7452, 10359, 16402
 starting and managing series, 17370
 Small Business Administration—
 economic opportunity loan program shows need for improved administration and increased effectiveness, GAO report, 8337
 free management assistance publications, lists, 6225, 13411
 specialists and generalists, selection of readings, 476
 staff development—
 public welfare agencies—
 1967 fiscal year, progress report, 2301
 1968 fiscal year, progress report, 17268

Administrative management—Continued
staff development—continued

- State public assistance, medical assistance, and child welfare services plans under social security act, 10364
- staff, examination announcement, amendment, 5246
- staffing guide for U.S. Army training centers, 11937
- sugar marketing quotas established by Sugar act of 1948, as amended, administration by Agricultural Stabilization and Conservation Service, GAO report, 15777
- supervising the hard core, management guidelines, 16004
- systems approach to management annotated bibliography with indexes, 13065
- systems safety management, safety aids decisionmaking, progressive new approach, 5757
- training program, 1968 college recruiting, report, 11058
- urban renewal rehabilitation program, improvements needed in management by Housing and Urban Development Dept., GAO report, 8330
- utility staffing for nuclear power, 16630
- value engineering
 - design or manufacture simplification, performed by contractors, opportunities for increased savings by improving management, Defense Dept. GAO report, 14321
 - handbook, 5516
 - in-house conference, role in support of defense management objectives, 4127
 - management in defense contracts, course book, 5496
- Veterans Administration cost reductions and management improvements, 2537
see also Configuration management.
- Administrative Office of United States, annual report, 5011
- Administrative personnel, *see* Administrative management.
- Administrative procedure, Government offices, investigation authorization, reports, 4057, 6752
- Administrators:
 - administrative staff, examination announcement, amendment, 5246
 - earnings data pertinent to review of salary tests, 10451
 - estates, Federal tax guide for survivors, executors and administrators, 8429
 - pay, 1968, in New York State, 11355
 - representatives, Federal aviation regulations, 12583
 - see also* Hospital administrators.
- Admire, Kans., motor carrier accident report, 7223
- Admittance (electric), *see* Impedance.
- Adolescents, *see* Youth.
- Adoption:
 - child welfare, 1967 statistics, 3868
 - definition of the term child in veterans' laws, amend, report, 16770
- ADP, *see* Electronic data processing systems.
- Adroskio, Rita J., natural dyes in United States, 1204
- Adsorption:
 - alkalized-alumina attritioning and SO₂ sorption rates, 11390
 - carbon-14-labeled stearic acid on soda-lime glass, 13301
 - granular, activated-carbon adsorption, feasibility for waste-water renovation, 4879
 - ion-exchange and adsorption columns—
 - axial-dispersion constant-pattern kinetics, 17098
 - study of design-optimization procedure for, 17099

Adsorption—Continued

- wettability of fluorocarbon and chlorocarbon trialkoxysilane films adsorbed on glass and metal surfaces, 7388
- Adult education, *see* Education.
- Adult Education Week, designate, report, 8037
- Adult, Vocational, and Library Programs Bureau, facts, 8168
- Adult-Youth Communications Week, *see* National Adult-Youth Communications Week.
- Adults:
 - health insurance coverage of adults who died in 1964 or 1965, 17360
 - hearing status and ear examination adults, United States, 1960-62, findings, 1354
see also Cripples.
- Advance land acquisition by local governments, 1996
- Advanced Research Projects Agency, ARPA-NBS program of research on high temperature materials, 16228
- Adverse action, law and regulations, annotated, 2858
- Advertising:
 - advertising alert, 2555
 - bait advertising, guides against, 6986
 - broadcasting of advertising of cigarettes, prohibit—
 - hearings, 9356-59
 - reports, 10717, 10725
 - Cigarette labeling and advertising act, amend—
 - hearings, 9356-59
 - reports, 10717, 10725
 - deceptive advertising of guarantees, guides against, 6987
 - pandering advertisements, how you can curb, 16328
 - public utilities promotional practices and their impact upon small business, hearings, 4003
 - selecting advertising media, guide for small business, 10359
 - workers, employment outlook, 4474
 - see also* Signs (advertising)—*also* subject advertised.
- Advisory Commission on Information, report, 13859
- Advisory Commission on Intergovernmental Relations:
 - annual report, 5012
 - appropriations, 1970—
 - hearings, 9331, 10886
 - law, 16740
 - reports, 9310, 9312, 10873, 15281
 - general information, 1
 - intergovernmental problems in medical, hearing, 3615
 - State legislative program, 10456
 - unshackling local government, survey of proposals, report, print additional copies, report, 7918
- Advisory Commission on International Educational and Cultural Affairs, annual report, 3976
- Advisory Committee on Merit System Standards, report, 11258
- Advisory committees:
 - Health Services and Mental Health Administration public advisory group, authority, structure and functions, 17340
 - National Institutes of Health, public advisory groups—
 - authority, structure, functions, 13173
 - rosters of members, 4786, 11542
 - PHS public advisory groups, authority structure, functions, 1343, 4859
 - see also* Housing and Urban Development Department.
- Advisory Council on Health Insurance for the Disabled, report, 5730
- Advisory Council on Human Nutrition, establish, hearings, 9327

Advisory Council on State Departments of Education, state of State Departments of Education, report, 12439
 Advisory Council on Vocational Education, general report, 1817
 AE-CL series, 2655
 AEC, *see* Atomic Energy Commission.
 AEC-NASA tech briefs, 3155
Aeration:
 composting ponderosa pine bark, effects of nitrogen addition and aeration, 5678
 tracer measurement of stream reaeration, 9837
Aerial mapping:
 aerial methods of studying and mapping sands, USSR study, 15915
 aerial surveys and mapping by photogrammetric methods, reference guide outline specifications for highways, 9974
Aerial photography:
 airphoto use in resource management, 8966
 applications to hydrobiological research in south Florida, 12755
 ASCS maps, status, 22, 16534
 geologic features in areas outside the United States, descriptive catalog of selected aerial photographs, 7052
 specifications, 12718
 status maps, 12671
 stratifying stand volume on non-stereo aerial photos reduces errors in forest survey estimates, 17053
 television cloud photography, meteorological satellite data, catalog—
 ESSA 1, 617
 ESSA 3 and ESSA 5, 1839, 6922
 see also Photography.
Aerodynamic heating, leading-edge effects on laminar flat-plate boundary layer and aerodynamic heating at Mach 10.4, 8636
Aerodynamics:
 and flight dynamics of turbojet aircraft, 16209
 Apollo launch escape vehicle configuration, characteristics determined during development, 13075
 characteristics—
 computing program for axial distribution of normal-force, for axisymmetric multistage launch vehicles, errata, 1048, 14602
 full-scale rotor blade stopped in flight, 13676
 jet V/STOL model, effects of jet-exhaust location, 13113
 large angle cones at Mach 3.0, effects of cone angle, base flare angle, and corner radius, 7254
 parasol-wing-body combination utilizing favorable lift interference at Mach numbers from 3.00 to 4.63, 1081
 static longitudinal of supersonic decelerator models at Mach numbers of 2.30 and 4.63, 11453
 subsonic, of large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system at angle of attack, 14611
 supersonic, and shock standoff distances for large-angle cones with and without cylindrical afterbodies, 14613
 transonic, of powered models of several Apollo launch-escape vehicle configurations, 1075
 twin-keel parawing, wind-tunnel investigation, 8647
 effects of bulbous bases, 14569
 entry aerodynamics at lunar return conditions obtained from flight of Apollo 4 (AS-501), 17219
 flight-determined aerodynamic properties of jet-augmented, auxiliary-flap direct-lift-control system, 10109, 13070
 forces on stationary and oscillating circular cylinder at high Reynolds numbers, 4756

Aerodynamics—Continued
 formation of float coal dust clouds, 10053
 furnace invention, Soviet scientific developments, 2081
 hypersonic, of blunt vehicles, use of tetrafluoromethane to simulate real gas effects, 11499
 interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers 3 and 6, 14627
 investigation of—
 class of bodies that generate far-field sonic-boom shock strength and impulse independent of body length and volume, 8631
 sharp cone-cylinder spikes on 120° blunted cones at Mach numbers, etc., 11453
 low-speed, high-lift, of one-fifth scale variable-sweep supersonic transport, wind-tunnel investigation, 1076
 magnetoaerodynamic flow around blunt bodies experimental investigation, 14574
 Newtonian, for circular cones modified to produce lift at zero angle of attack, 10124
 nonequilibrium gasdynamics, 14583
 orbital lifting vehicle non-linear longitudinal dynamics, 17209
 steady-state, of composite-lift VTOL aircraft model, wind tunnel investigation 11460
 streamlines on blade-to-blade stream surface of a tandem blade turbomachine, FORTRAN program for calculating, 8611
 three-dimensional sharp-nose shock-detached bodies, application of generalized Newtonian theory, errata, 2216
 velocities in magnified region of blade-to-blade stream surface of turbomachine, FORTRAN program for calculating, 8616
 wing, data on large semispan tilting, etc., 4741
 see also Airplanes—Boundary layer—Flight—Flow—Flutter (aircraft)—Helicopters—Lift (aircraft)—Load (mechanics)—Rockets—Shock (mechanical)—Stability of aircraft—Vortex motion—Wings (aircraft).
Aeroelasticity:
 aeroelastic divergence of two experimental unguided launch vehicles, analysis, 1077
 characteristics of full-scale rotor blade stopped in flight, 13676
Aeroembolism, decompression sickness in simulated space flight, treatment, 85
Aeromagnetic maps survey, etc., *see* Maps and charts.
Aeromedical reviews, 80—81, 1538—39, 6415, 10524, 13627, 16570—571
Aeronautical and Space Sciences Committee, Senate:
 committee prints, 1729, 5423
 hearing, 5424, 9412—43 10882, 14011
 investigations and studies, aeronautics and space activities, authorization, report, 4048
 report, 10877
 10th anniversary, 1958—68, historical background, etc., 1721
Aeronautical charts, *see* Maps and charts.
Aeronautical equipment removing seawater salt residues by surface chemical methods, field experience, 8762
Aeronautical Exposition in United States, International, *see* International Aeronautical Exposition in United States.
Aeronautical instruments, standard calibration table for aeronautical pressure measuring equipment, military standard, 4134
Aeronautical lighting, *see* Lights and lighting.

INDEX 1969

Aeronautical supplies :

aircraft type certificate data sheets and specifications, 2380
spare parts, need for more competition in procurement of, Defense Dept., GAO report 712
see also Ground support equipment.

Aeronautics :

activities of Federal departments, etc., investigation, authorization, report, 4048
aeronautical display and control problems, advanced electronic applications, study, 4670
aeronautical research and development, hearings, 4001
AIP, aeronautical information publication, handbook, 15027
air traffic patterns for IFR and VFR aviation, 15679
air transport services, agreement with—
Brazil, 11717
France, 14928
Union of Soviet Socialist Republics, 1452
airman's information manuals, 2582-84, 6325, 16975
airport/airways legislation, 15681
Alaska airman's guide and chart supplement (periodical), 5584

Army aviation—

- digest, 3547
- techniques and procedures field manual, 16585
- utilization, field manual, 16584
- aviation combat criterion, development, preliminary report, 14502
- Aviation facilities expansion act of 1969, hearings, 15337
- aviation forecasts, 1968-79 fiscal years, 12580
- aviation news (periodical), 2813
- aviation radio services, FCC rules and regulations, 2832
- aviation weather reports, etc., key to, 17439
- aviation weather services, pilot's guide, 9730
- certificated pilot flight and ground schools, list, 12596
- chronology on science, technology, and policy 10100
- civil aviation—
 - accidents—
 - briefs (periodicals), 2630
 - briefs, mid-air collisions, 6110
 - preliminary analysis, 8739
 - employment outlook, 4574
 - international convention, protocol, 6297
 - process-verbal, of rectification to French text annexed to protocol, 13479
 - publications, price list, 4867
- code of Federal regulations, 6954, 8220, 11117
- communications and pilot services handbook, 2556
- Congo, civil aviation survey, final report, 12854
- FAA statistical handbook of aviation, 11039
- Federal aviation act of 1958—
 - amend—
 - hearings, 7964, 14021
 - law, 15210
 - reports, 9308, 9415, 12163, 15241
 - enforcement procedures, Federal aviation regulations, 12583
 - rule making procedures, Federal aviation regulations, 12583
- Federal aviation regulations, 1852-54, 4233-47, 5588-91, 6928-38, 11040-42, 14184-185, 15684-687, 16976-980
- status, 3467
- general aviation accidents, annual review, 6105

Aeronautics—Continued

history of aviation and cosmonautics, Institute for History of Natural Science and Technology, 9th scientific conference of graduate students and junior scientific associates, transactions, 11505
International air policy (address), 10616
International notams, 3001
joint financing of air navigation services in Greenland and Faroe Islands, agreement with other governments, 2500
latest word in aviation (address), 11558
lifting horizontal-axis rotating-wing aeronautical systems (IARWAS), review and evaluation, 13677
Marine Corps' concept of close air support, annotated bibliography, 5924, 16044
memorandum for aviators, 3111
midair collisions in U.S. civil aviation, special accident prevention study, 13206
National aeronautics and space act of 1958, as amended, and related legislation, 17257
national aviation system plan, 11049
system requirements and criteria, 11048
naval aviation—
news, 3172
publications, price list, 4867
safety review, 2598
Pacific chart supplement (periodical), 3235
quality program provisions for aeronautical and space system contractors, 11509
radio regulations, Geneva 1959, with final protocol, partial revision, report, 438
research, investigation—
authorization report, 6652
expenses report, 6678
skilled aviation personnel, national program for training, preliminary design study, 559
United States activities, report 1968—
departmental edition, 8661
document edition, 7844
see also Aircraft—Flight—Reconnaissance (aerial)—Spacecraft—*also* certain headings beginning Air.
Aeronautics and Space Administration, National, *see* National Aeronautics and Space Administration.
Aeronomy Laboratory, ESSA technical report ERL-AL series, 6913-14
Aerosols :
containers, methods of analyzing organophosphorus insecticides, trichloromethaphos and carbophos, USSR study, 15954
disinfection method in presence of viral infections, USSR study, 863
interaction of radon decay products, 10254
virus, method for determining on surfaces contaminated by virus aerosols, USSR study, 7145
Aerospace, *see* Outer space.
Aerospace engineers, employment outlook, 4505
Aerospace environment, *see* Environment.
Aerospace maintenance safety, 2557
Aerospace medicine, *see* Medicine.
Aerospace nurse date book, 15008
Aerospace Research Office :
Air Force research objectives, 1969, physical sciences, engineering sciences, environmental sciences, life sciences, 15016
OAR progress, 1968 report, 3689
OAR Research Applications Conference, proceedings, 11899
OAR research directory, 7632
OAR series, 3689, 7632-34, 11898-899
13626, 15016
research résumés, 13626
research review (periodical), 3212
Aerospace safety (periodical), 2559
Aerospace science, *see* Science.
Aerospace vehicles, *see* Spacecraft.
Aetna Freight Lines, Inc., motor carrier accident, 13036

Afars and Issas, *see* French Territory of
 Afars and Issas.
 AFCL, *see* Air Force Cambridge Research
 Laboratories.
 AFDC, *see* Children.—Families—Public as-
 sistance.
 Afghanistan:
 agricultural commodities, agreement, 8898
 area handbook, 6436
 China boundary, study, 10415
 economic trends and their implication for
 United States, 9995
 surface water resources investigations
 plan, 8358
 technical cooperation, agreements, 1449,
 7510, 14920
 AFHRL, *see* Air Force Human Resources
 Laboratory.
 AFL-CIO, *see* American Federation of Labor
 and Congress of Industrial Organizations.
 AFOSR, *see* Air Force Office of Scientific
 Research.
 Africa:
 African Communists' struggle reported,
 USSR study, 5812
 agricultural policies, 1803
 agricultural production, 1959-68, indices,
 10969
 agricultural situation—
 1968 review and 1969 outlook, 6860
 1969 midyear review, 16948
 climatological mean probability of pen-
 etrable optical path for high intensity,
 high contrasts optical targets—
 graphs, 1841
 maps, 4220
 east coast, currents, 13214
 East, selling in, 9206
 economic growth trends, 12855
 foreign relations of U.S., diplomatic pa-
 pers—
 departmental edition, 10412
 document edition, 9248
 geographic distribution of shigellae,
 changes in etiologic structure of
 dysentery in countries of Africa, char-
 acteristics, USSR study, 12926
 market profiles, 12068
 mineral industry, minerals yearbook chap-
 ter, 4625
 neocolonialism threat, Soviet view, 5853
 northeast, geomorphological features, pre-
 liminary study of detection by satellite
 radiation measurements in visible and
 infrared, 2219
 Organization of African Unity, 7489
 selected references, 11910
 social science research, special papers
 available, 8880
 southern, stomatopod crustacea, notes,
 11662
 southwest coast, sailing directions, 14728
 translations, 3506
 U.S. foreign aid, 1970 proposed program,
 14427
 West—
 conference on nutrition and child feed-
 ing, proceedings, 1345
 nautical charts and publications, cata-
 log, 10228
 rice study, 11885
 west coast—
 lights and fog signals, list, changes,
 2335, 8751, 16303
 tide tables, 12059
 African Republic, Central, *see* Central Afri-
 can Republic.
 African Star (SS):
 1969 American Merchant Marine Seaman-
 ship Trophy presentation (remarks),
 17164
 Afro-American History and Culture Commis-
 sion, establish, hearing, 16816
 AFSC, *see* Air Force Systems Command.
 After college what? 8847
 After school study centers, New York City,
 6868

Afterbodies:
 cylindrical, large-scale cones with and
 without, supersonic aerodynamic char-
 acteristics and shock standoff distances,
 14613
 inflatable and rigid afterbody, large-scale
 investigation of M1-L lifting body,
 17226
 Afterburning, *see* Combustion.
 Agar, citrate mannitol agar medium for
 separating *Escherichia coli* paracolon
 from *Shigella*, 83
 Age:
 and disability, effect on access to public
 income-maintenance programs, 1394
 limits in appointments to U.S. Park
 Police—
 law, 16739
 reports, 12263, 15262
 middle-aged and older workers full em-
 ployment act of 1968, bill text and
 section-by-section analysis, 497
 population, estimates of States, 7744
 Age (law):
 how you may save time proving your age
 and other birth facts, 8807
 minimum age for employment in under-
 ground mines, International Labor Or-
 ganization convention, 6574
 Aged:
 adequacy of employment services for older
 workers, hearings, 455
 aging (periodical), 2560
 designs for action for older Americans,
 10457
 519 East Main Street, tribute to partner-
 ship and involvement (address), 15826
 food guide for older folks, 38, 10481
 group volunteer service, project report,
 7566
 handle yourself with care—
 accident prevent for older Americans,
 6353
 instructor's guide for accident preven-
 tion course for older Americans, 5018
 health insurance—
 amounts reimbursed by—
 States, 2453
 States and counties, 11665
 directory of providers of services—
 extended care facilities, 1389
 home health agencies, 1389A
 hospitals, 1390
 independent laboratories, 1391
 number of participating health facili-
 ties, 11668
 people 65 or older, brief explanation of
 medicare, 6238, 10376
 provider reimbursement manual, revi-
 sion, 2452
 social security, July 1, 1967, number in-
 sured, 4936
 health insurance for the aged, HIM
 (series), 2452
 health services to older Americans, costs
 and delivery, hearings, 8050
 homes, use of special aids, statistics, 2432
 housing for the elderly—
 balanced program for balanced budgets
 (address), 14385
 community improvement in Wilmerding,
 Pa. (address), 769
 life safety from fire, guide, 785
 rental & co-op, loans for senior citizens
 in rural areas, 7607
 status (address), 782
 Mexican-Americans, Federal programs and
 services, availability and usefulness,
 hearings, 12282
 mortality before and after medicare,
 10366
 Older Americans act of 1965—
 amendments of 1969—
 hearing, 9343, 10911
 law, 16735
 reports, 10713, 15360

- Aged—Continued
 older workers, manpower programs for
 senior citizens, 7165
 outlays for medical care, 1966-68, fiscal
 years, 13436
 project report on a centralized compre-
 hensive program, designs for action for
 older Americans, 11786
 psychiatric patients, use of general hos-
 pitals, study, 8855
 social security for the aged, international
 perspectives, working papers prepared
 for hearing, 14013
 Task Force on Prescription Drugs, back-
 ground health needs, resources, and ac-
 tual use of prescription drugs by the
 elderly, 1983
 tax benefits for older Americans, 8440
 tax treatment of the elderly—
 digest of testimony and statements,
 1715
 1715
 tax reform hearings—
 summary of testimony, 10816
 written statements of witnesses, 7984
 usefulness of model cities program to the
 elderly, hearings, 456, 8051, 10883
 what churches can do, inter-faith oppor-
 tunity center, 10457
 working with older people, practitioner and
 the elderly, practice guide, 13383
see also Aging—Old age insurance—Old
 age, survivors, and disability insurance.
- Agency for International Development, *see*
 International Development Agency.
- Agency training centers for Federal em-
 ployees, 1646
- Agents, *see* Foreign agents—Lawyers.
- Ageton, Robert W., systems approach to
 recovering gold resources in Jefferson
 County, Mont., 16104
- Aggregates:
 lightweight, raw materials, Appalachian
 region, Ala. and Ga., 5963
 preplaced concrete, resistance to freezing
 and thawing, 604
- Aging:
 developments, 1968, report, 6774
 print additional copies, report, 8025
 economics of aging, toward a full share in
 abundance, survey, hearings, 15414
 print additional copies, report, 15389
 full measure of life, 13171
 health aspects of economics of aging, to-
 ward a full share in abundance, work-
 ing paper, 14012
 projects, Federal financial assistance,
 5014-17, 14971-973
 resources for the aging, action handbook,
 14122
see also Aged.
- Aging, Special Committee on, Senate:
 committee prints, 14012-13
 continuing authority, etc., report, 5421
 hearings, 455-456, 8050-51, 10883, 12282,
 15414
 report, 6774
- Aglaonema, *see* Araceae.
- Agnew, Donald B., improvements in grades
 of hogs slaughtered, 7598
- Agreement on tariffs and trade, *see* General
 agreements on tariffs and trade.
- Agricultural adjustment act, *see* Agriculture.
- Agricultural commodities, *see* Agricultural
 products.
- Agricultural commodity graders, *see* Graders
- Agricultural conservation program:
 Nebraska, 6366
 1968 accomplishments, 7580
 Virginia, 6369
- Agricultural credit:
 Farm credit act of 1933, amend, hearing,
 386
 farm credit system, functions and organi-
 zation, 620
 Federal farm loan act, amend, hearing, 386
- Agricultural credit—Continued
 loans and discounts of lending institutions
 supervised by FCA, annual report, 12577
see also Loans—Production credit asso-
 ciations
- Agricultural economics, *see* Agriculture.
- Agricultural engineering, conservation prac-
 tices, engineering field manual, 13442
- Agricultural engineers, employment outlook,
 4505
- Agricultural experiment stations:
 regional cotton variety tests, results, 5020
 States—
 funds for research, 6818
 outdoor recreation, catalog of research
 projects and studies, 6819
 professional workers, list, 6371
 research facilities, administrative man-
 ual, 10478
- Agricultural finance, *see* Agriculture.
- Agricultural insurance, crop insurance, stat-
 utes, compilation, 1502
- Agricultural machinery, *see* Farm imple-
 ments and machinery.
- Agricultural marketing (periodical), 2562
- Agricultural marketing agreement act, *see*
 Agricultural products.
- Agricultural occupations, employment out-
 look, 4567
- Agricultural outlook, *see* Agriculture.
- Agricultural policy, *see* Agriculture.
- Agricultural products:
 acreage diversion, statutes, compilation,
 1502
 Africa and Near East, 1959-68, indices,
 10969
 agricultural commodities, agreement
 with—
 Afghanistan, 8898
 Bolivia, 1455, 2499, 8892-93
 Ceylon, 11712
 Chile, 7521, 11722
 Colombia, 6277
 Congo (Kinshasa), 6276, 11728
 Dominican Republic, 13480, 13488,
 14908, 16480
 Ghana, 7503, 13487
 Guinea, 7520
 Guyana, 6282
 Iceland, 6279, 13481
 India, 7522, 11727, 13484
 Indonesia, 1451, 2491, 8895, 10418,
 16473
 Israel, 7507
 Jordan, 11719
 Korea, Republic, 6289, 8899, 10420
 Morocco, 7526
 Pakistan, 14930
 Paraguay, 11718, 14912
 Poland, 7494
 Sierra Leone, 10423
 Tunisia, 6302, 14926
 Turkey, 7524
 Uruguay, 2494
 Vietnam, 6299, 8891, 11711, 14914,
 16475, 16478
 Yugoslavia, 7502
 agricultural exemption in interstate truck-
 ing, economic performance of motor
 carriers, 3649
 agricultural market development activities
 of principal competing countries, 8270
 agricultural marketing (periodical), 2562
 Agricultural marketing agreement act of
 1937, amend—
 hearing, 9325, 10764, 10884
 reports, 15396, 16871
 agricultural prices (periodical), 2564
 agricultural production—
 and technology in Columbia, changes,
 10972
 Western Europe, indices, 12419
 agricultural research in relation to in-
 creasing demand, analysis, 3668

Agricultural products—Continued

agriculture in Australia with emphasis on trade with Far East countries, 9643
 ASCS commodity fact sheets, 2609
 building U.S. agricultural exports, 12668
 CCC monthly sales list, 2647
 commodity futures statistics, monthly summary, 3143
 European Economic Community, 1961-67 agricultural trade statistics, 4158
 exports and imports, quantity indexes, 5528
 farm marketing quota review committee, appoint members from any county in State, permit court review of determinations, 15399
 Federal stockpile inventories, report, 2551
 food and agricultural exports directory, 667
 food and farm products, USDA grade names, 507
 food stamp program and commodity distribution, hearings, 9444
 foreign agricultural trade—
 by commodities, 4159, 6865, 15626
 by countries, 575, 9647
 monthly, 2900
 fresh winter produce, capabilities of U.S. and Mexican production areas for supplying U.S. markets, 6856, 8150
 handbook of agricultural charts, 31
 license fees under Perishable commodities act of 1930, increase—
 hearing, 13912
 reports, 16775, 16870
 Marketing act of 1946, amend, hearings, 16807-808
 Marketing agreement act of 1937, amend, hearing, 16808
 marketing bulletins, 10485, 11872, 16545
 marketing research reports, 43-44, 1508-10, 3646-49, 5049-51, 6383-86, 7595-98, 8971-72, 10486-487, 13594, 14997, 16546-548
 Netherlands, supply and demand, imports and exports, forecast for 1970 and 1975, summary, 8158
 orderly liquidation of stocks of agricultural commodities held by Commodity Credit Corporation and expansion of markets for surplus agricultural commodities, 3662
 packaging produce in trays at central warehouse, 3646
 Perishable agricultural commodities act, text and regulations under act, 4106
 photographs in Division of Agriculture and Forest Products, annotated list, 13414
 prices—
 1968 annual summary, 11729
 supports, CCC program data, 2648
 production research reports, 3668, 7613, 8989-90, 13604-605, 15005-6
 production research under marketing agreement and order programs, authorize, hearing, 13915
 publications, price list, 6171
 purchase reports, 3350
 sales reports, 3410
 synthetics and substitutes, compendium, 6393
 trade and tariff information, summaries, 8912
 transportation, economics of marketing research report, 7596
 tropical products, foreign agriculture circulars, 2902
 United Kingdom, projected level of demand, supply, and imports, 1970, 1975, and 1980, summary, 14125
 USDA standards, list, 6373
 vegetable products, trade and tariff information, summaries, 2511, 7540, 10430-431

Agricultural products—Continued

Western Hemisphere, excluding United States, revised 1959-1967, preliminary, 1968, indices, 6861
 world agricultural production and trade, statistical report, 1905, 3609
 Agricultural research, *see* Agriculture.
 Agricultural Research Center, Beltsville, Md., land conveyance to Hall sisters, hearings, 387
 Agricultural Research Laboratory, University of Tennessee, research progress report, 1599
 Agricultural Research Service:
 appropriations, 1970—
 hearings, 7945
 reports, 9311, 12254
 ARS series, 2-9, 1496-97, 3619-22, 5020-22, 6355-61, 7567-70, 8945-48, 10459-460, 11787-795, 13537-540, 14974-975, 16529-531
 directory, 13583
 imprint on living, report on progress, 5031
 scientific careers, 13595
 screwworm eradication program, GAO review, 7034
 utilization research and development, 1968 summary report, 10467
 water resources research, coordination with Reclamation Bureau, report of meeting, 14830
 Agricultural research technicians, examination announcement, 15143
 Agricultural science review, 2566
 Agricultural situation, *see* Agriculture.
 Agricultural Stabilization and Conservation Service:
 administration of—
 program crops certification, 6395
 sugar marketing quotas established by Sugar act of 1948, as amended, GAO report, 15777
 aerial photography status maps, 22
 airphotos, survey of non-Federal purchasers, 8966
 annual report, 5025
 Alabama, 11802
 Alaska, 11805
 Arizona, 11808-809
 Arkansas, 8954, 11810
 California, 11811, 13560
 Caribbean area, 8951
 Connecticut, 10468
 Delaware, 11812-11814
 Florida, 11816-817
 Georgia, 11818-819, 13561
 Hawaii, 11820-821
 Idaho, 11822, 13562-565
 Illinois, 11823
 Indiana, 8956-57, 11824-825
 Iowa, 11826, 13559
 Kansas, 11806-807, 13566
 Kentucky, 8955, 10469
 Louisiana, 8953
 Maine, 13567-568
 Maryland, 11827
 Massachusetts, 13558
 Michigan, 23, 11828
 Minnesota, 8950, 11829
 Mississippi, 11830-831
 Missouri, 8958, 11832
 Montana, 24, 8959
 Nebraska, 8960
 New Hampshire, 8961
 New Jersey, 11833-834
 New Mexico, 8962
 New York State, 8963, 10470
 North Carolina, 11835, 11836
 North Dakota, 11837
 Ohio, 11838-840
 Oklahoma, 10471, 13569-574
 Oregon, 10472, 11841
 Pender-New Hanover Counties, 13575
 Pennsylvania, 11842, 13576
 Rhode Island, 11843
 South Carolina, 11844-845, 13577-582

- Agricultural Stabilization and Conservation Service—Continued**
 annual report, 5025—continued
 South Dakota, 11846
 Tennessee, 11847-848
 Texas, 11849-850
 Utah, 11851
 Vermont, 10473, 11852
 Virginia, 11853-854
 Washington State, 11855
 West Virginia, 8952
 Wisconsin, 11856-858
 Wyoming, 11860
 appropriations, 1970—
 hearings, 7945
 reports, 9311, 12254
ASCS—
 aerial photography status maps, 16534
 background information, BI series, 1500
 commodity fact sheets, 2609
 Nevada's ASCS farm programs, 6367
 press releases, 3267
 purchase reports, 3350
 sales reports, 3410
 vote for farmers of your choice, committeemen, election, general information, 11877
Agricultural statistics, see Agriculture.
Agricultural supplies, Federal Item Identification guides for supply cataloging, supplements, 2847
Agricultural trade development and assistance act of 1954:
 amend to remove certain restrictions against alcoholic beverages, hearings, 387
 food for peace, annual report on Public law 480, 12136
 international rehabilitation research and demonstration projects, annotated listing, 8853
 Library of Congress project newsletter, 3071
 Library of Congress Public law 480 project accessions list—
 Ceylon, 2652
 India, 2975
 Indonesia, 2978
 cumulative list of serials, 2989
 Israel, 3014
 Middle East, 3118
 Nepal, 3185
 Pakistan, 3240
 quinquennial index, 5918
 Public law 480, statutes, compilation, 1502
Agriculture:
 Academy of Agricultural Sciences, USSR, proceedings, 15942
 Africa and west Asia—
 agricultural policies, 1803
 situation, 6860, 16948
 agricultural academy plans agricultural development to 1980, USSR study, 5837
 agricultural adjustment act, amend—
 hearings, 9325, 10884, 12283, 13914, 16808
 reports, 15395-396, 15399, 16773, 16871
 agricultural development and expansion in Nile Basin, 574
 agricultural economic reports, 565-568, 1799-1801, 4154, 6855-56, 6999, 8150-54, 9639-41, 10965-968, 14123, 15617-618, 16947
 agricultural economics—
 Northern Lake States, selected economic trends, 9639
 periodic reports, list, 3667
 reports issued by Economic Research Service and Statistical Reporting Service, checklist, 2655
 agricultural economics research (periodical), 2561
 agricultural economy in brief—
 Israel, 12416
 Mozambique, 12414
 agricultural finance review, 9642
Agriculture—Continued
 agricultural outlook digest, 2563
 agricultural prices (periodical), 2564
 agricultural prospects in Central America, 12420
 agricultural research (periodical), 2565
 indexes, 3617-18
 agricultural science review, 2566
 agricultural sciences, professional careers with Federal Government, 16691
 agricultural situation (periodical), 2567
 agricultural situation in Communist areas—
 eastern Europe, Soviet Union, and mainland China, 6859
 midyear review, 12423
 agricultural statistics, 1950-66, Eastern Europe and Soviet Union, 5527
 agricultural trade, South Africa, 1970 and 1975 projections, 572
 agriculture handbooks, 28-31, 1502, 3632, 5026-28, 6370-74, 8964, 10475-478, 11861-862, 14984-987, 16535
 agriculture in transition, report, 5064
 agriculture information bulletins, 3633, 5029-31, 6375-76, 7584, 8965-66, 11863-864, 14988-989, 16536
 Agrostan, case study for 1970, world census of agriculture, 9164
 Australia, with emphasis on trade with Far East countries, 9643
 bibliography, 2624
 Brazilian situation, a look ahead, 571
 census, 1964—
 evaluation surveys, coverage check, 15121
 final reports, 250, 1629, 7752, 15121
 maps, announcement and order form, 9169
 child labor requirements under Fair labor standards act, 11770
 code of Federal regulations, 5622, 6949-53, 8215-18, 9797-99, 11112-115
 Congolese, getting agriculture moving, evaluation, 8489
 control of agriculture-related pollution, report, 3634
 cooperative State-Federal research, 14989
 corporations having agricultural operations, preliminary report, 8152
 decisions, 2568
 Denmark, agricultural economy and trade, 4157
 domestic situation and foreign aid outlook (address), 7582
 Ethiopia, survey, 12417
 evaluation surveys, 1964 census of agriculture, coverage check, 15121
 Far East and Oceania—
 1969 agricultural data book, 15623
 situation, 573, 8160, 16950
 farm financial management research, theoretical analysis, 570
 farm policy (address), 10474
 farm relief and agricultural adjustment acts, compilation, 3941
 finance outlook, 4155
 food aid and agricultural development, 9645
 food costs, farm prices, compilation, 9328
 foreign agricultural economic reports, 574, 1803, 5531, 9645, 10972-973, 15624
 Foreign Agricultural Service, miscellaneous FAS-M series, 667, 1903, 4290, 8271-72, 9841, 11154-155, 12669-670, 15746-748
 foreign agriculture—
 circulars, 2902
 periodical, 2901
 publications, price list, 6171
 foreign development, answers to problems came from U.S. training, 56
 Ghana's agricultural economy in brief, 6857
 greater leadership in agriculture called for, USSR articles, 5826

Agriculture—Continued

handbook of agricultural charts, 31
international agricultural development,
monthly newsletter to cooperators, 2994
legislation enacted, 90th Congress, review,
384, 7944
major uses of land and water in United
States, summary, 568
molecular biology, potential for future re-
search, report of Western Experiment
Station Collaborators Conference, 7570
National Agricultural Outlook Conference
(remarks), 7614
new era in world agriculture (paper), 8458
1968 balance sheet, 3633
our foreign agricultural trade, 8965
Peruvian agricultural situation, look
ahead, 12415
Puerto Rico, minimum wage rates, data
pertinent to review, 13518
research—
as an investment (talk), 3630
Northern Utilization Research and De-
velopment Division, 13546
scientific, USSR, 855
Rio São Francisco Basin, Brazil, recon-
naissance appraisal, 10352
sewage effluent and sludge for agricultural
utilization, bibliography, 4287
statistical summary, 3465
statistics, 32
story of U.S. agricultural estimates, 7600
subsistence, family, and commercial farm-
ing (remarks), 10496
survey in Cuba, 10970
technical assistant, examination announce-
ment, 16694
trade statistics, 1961-67, European Free
Trade Association, 9644
tree bark properties in relation to their
agricultural utilization, 17050
U.S. agriculture in changing world (ad-
dress), 14982
United States background facts, 3644
USSR—
increased farm production requires
specialization, 5844
land reclamation and irrigation, 5818
recent achievements, 5827
reports delivered by Republic Party
Secretaries, 2071
scientific research, 855, 12900
translations, 3518
Western Europe situation, 6858, 12422
Western Hemisphere situation, 8159,
16949
world agricultural production and trade,
statistical report, 1905, 3609
world situation, 1968 review and 1969
outlook, 5531
yearbook, 1968—
departmental edition, 5065
document edition, 5321
yearbooks, 1948-68, Government publica-
tions, list, 8786
see also Farm labor—Farmers' coopera-
tive organizations—Irrigation—also
headings beginning Agriculture.

Agriculture and Forestry Committee, Senate:
calendar, 3053
hearings, 4068, 5425, 9444-45, 10884,
12283-284, 14014, 16877
reports, 9412, 10866, 12252, 12260, 13972-
975, 15361-362, 15394-396, 15399,
16836, 16870-871

Agriculture Committee, House:
calendar, 3025
committee prints, 384, 7944, 9328
hearings, 385-387, 6701-2, 7941-43, 9325-
27, 10763-764, 12202, 13911-915,
16806-808
investigations and studies—
authorization, report, 6647
expenses report, 6674
reports, 374, 6688, 6691, 7938, 10728-
730, 16773-775

Agriculture Department:

annual report, 5064
appropriations, 1969 and 1970, supple-
mental, proposal, 6376
appropriations, 1970—
hearings, 6704, 7945, 9329, 10885
reports, 9311, 12254
Assistant Secretary for Human Nutrition,
establish, hearings, 9327
Assistant Secretary, nomination of—
Lyng, Richard D., hearing, 5425
Palmbly, Clarence D., hearing, 4068
careers, profiles, 45
chemical compounds authorized for use
under USDA poultry, etc., inspection
programs, lists, 508, 10922
Cispus Job Corps Civilian Conservation
Center Kandle, Wash., effectiveness and
administration, GAO report, 11205
color filmstrips and slide sets, list, 1512
disaster loan programs, hearings, 12288
employee handbook, 14984
field staff, Foreign Service list, 2907
foreign aid provided through operations
of United States Sugar act and Interna-
tional coffee agreement, GAO report,
17065
guide to understanding, 4850
institutional meat purchase specifications
approved—
cured, dried, and smoked beef products,
15480
fresh beef, 6815
fresh lamb and mutton, 1747
fresh veal and calf, 9503
general requirements, 10921
pork products, cured, smoked, etc., 5469
portion-cut meat products, 5470
amendment, 4103
sausage products, 1748
land conveyance to Board of Education
of Lee County, S.C., reports, 10730,
15361
leaflets, 42, 1507, 3642-45, 5046-48, 6382,
7594, 8969-70, 10484, 11869-871, 13593,
14994-996, 16544
marketing bulletins, 10485, 11872, 16545
marketing research reports, 43-44, 15081-
10, 3646-49, 5049-51, 6383-86, 7595-
98, 8971-72, 10486-487, 11873-874,
13594, 14997, 16546-548
meat inspection—
procedures manual, 3099
amendment, 8097
change, 1749
regulations, 3372
miscellaneous publications, 45-50, 1511-
14, 3650-61, 5052-57, 6387-93, 7599-
7605, 8973-75, 10488-491, 11875,
13595-596, 14998, 16549-551
National Wilderness Preservation System,
status, proposals, 9251
nutrition and human needs, statements by
USDA officials hearings, 5463
outdoor recreation, catalog of research
projects and studies, 6819
PA [program aid] series, 51-55, 1515-16,
3663-66, 5058-61, 6394-98, 7606-12,
8976-88, 10492-495, 11876-884, 13597-
602, 14999-15003, 16552-554
plants under continuous inspection, pro-
cessed fruit and vegetables, etc., list,
15481
poultry and egg inspection and grading
programs, plants operating under, list,
509
press releases, 3268
production research reports, 3668, 7613,
8989-90, 13604-605, 15005-6
progress report on pesticides and related
activities, 13606
publications and motion pictures, bi-
monthly list, 2625
publications available, list, 12823

Agriculture Department—Continued
 registered agricultural pesticide chemicals—
 fungicides, and nematocides, summary of
 uses, 13556
 herbicides, defoliants, desiccants, plant
 regulators, summary of uses, 20
 insecticides, repellants, acaricides, sum-
 mary of uses, 14981
 summary, replacement pages, 7579
 screwworm eradication program, Agricul-
 tural Research Service, GAO review, 7034
 Secretary, nomination of Clifford M. Har-
 din, hearing, 4068
 service, USDA's report to consumers (pe-
 riodical), 3434
 standards for food and farm products, 11st, 6373
 statistical bulletins, 1519, 3671-72, 5066,
 6400, 8991-92, 7615-17, 10497-501,
 11886, 13607, 16558
 statistical series, how constructed and
 used, 14987
 technical bulletins, 3673, 5067-68, 6401,
 8993, 10502, 11887, 13608, 15007
 telephone directories, 62, 7618, 13609
 Under Secretary, nomination of J. Phil
 Campbell, hearing, 4068
 USDA—
 acceptance service for—
 meat and meat products, 10485
 poultry and eggs, 16545
 at work in northern New Mexico, 63
 employee newsletter, 3552
 grades, how to use in buying food, 6394
 veterinarians, career opportunities, 10488
 what it can do when natural disaster
 strikes, 14999
 you're in good company, millions of Amer-
 icans use USDA food stamps, 16553
 Youth Conservation Corps, establish—
 hearing, 8077
 report, 10867
 Agrostian, case study for 1970 world census
 of agriculture, 9164
 Agua Fria River:
 drainage area, flood hazard in Maricopa
 County, Ariz., how to avoid damage, 4199
 flood plain information, 4200
 Aguada limestone of northwestern Puerto
 Rico, 4354
 Aguilar, Carlos J., relief, 4018
 Ah Mee Locke, *see* Locke, Ah Mee.
 Al Bok Chun, *see* Chun Al Bok.
 All: series, 3633, 5029-31, 6375-76, 7584,
 8965-66, 11863-864, 14988-989, 16536
 AID, *see* International Development Agency.
 Aid to families with dependent children, *see*
 Children—Families—Public assistance.
 Aid to the blind, *see* Public assistance.
 Aid to the permanently and totally disabled,
see Public assistance.
 Aid to the totally disabled, *see* Public assist-
 ance.
 Aides, *see* Health aides.
 Aids to navigation, *see* Navigation.
 Aims and strategy of U.S. foreign policy
 (address), 16469
 Almsworth unit, *see* Missouri River Basin
 project.
 Air:
 air entrainment in mass concrete, 6908
 equilibrium dissociated—
 approximate relations for laminar heat
 transfer and shear-stress functions,
 errata, 1049
 stagnation-point boundary layer with
 suction and injection, corrected copy,
 2217
 inviscid radiating shock layers about
 spheres travelling at hyperbolic speeds
 in air, 10157
 leakage and air leakage calculations in
 mine ventilation, USSR study, 12944

Air—Continued
 measuring electrical conductivity of air in
 free atmosphere from aircraft, USSR
 study, 15975
 methods of analyzing organophosphorus
 insecticides, trichlorometaphos and car-
 bophos, USSR study, 15954
 open-air testing of lethal chemicals, en-
 vironmental dangers, hearings, 12221
 radiation field in air due to distributed
 gamma-ray sources in ground, 186
 radiant energy transfer measurements,
 16124
 room, at ground level and in helium-oxygen
 mixture at simulated altitude, compari-
 son of speech recordings, 5083
 samples, determination of radon progeny
 in air from alpha activity, 5152
 shock-heated air, flight measurement of op-
 tical radiation from, by using a Trail-
 blazer II vehicle, 2242
 spore content, determination with station-
 ary probes, USSR study, 12890
 upper air observations above 30 kilometers,
 Federal plan, 14172
 See also Air pollution—Atmosphere.
 Air almanacs, *see* Almanacs.
 Air bases, planning and design, theater of
 operations, Army technical manual, 174
 Air bearing systems for grossly mismatched
 surfaces, 1546
 Air bearings, *see* Bearings (machinery).
 Air carriers:
 acquisition of control, unlawful without
 approval of CAB, amend act—
 hearings, 7964, 14021
 law, 15210
 reports, 9308, 9415, 12163, 15241
 air piracy in Caribbean area, report, 3988
 air taxi operations, general aviation, acci-
 dents—
 analysis, 6101
 briefs, 6106-8
 air taxi operators—
 and commercial operators, Federal avia-
 tion regulations, change, 16980
 1966 census, 11037
 scheduled as of Nov. 1968, statistics,
 8204
 air transport services—
 agreement with—
 Colombia, 6287
 Czechoslovakia, 8888
 Greece, 6298
 U.S. contractors in Vietnam, difficulties
 in arranging, GAO report, 706
 aircraft piracy, preliminary report, 5360
 airfreight rates, introduction, 3869
 airline finance and accounting (remarks),
 16673
 airline statistics handbook, errata, 7758
 airline transport pilot, written test guide,
 1847
 airworthiness certification and related ap-
 provals, 12593
 analytical charts and summaries, includ-
 ing supplemental air carrier statistics,
 2569
 certificated—
 accounts and reports, uniform system,
 3545, 6513
 route airport activity statistics, 621,
 8193
 subsidy, 1663
 certification and operations, Federal avia-
 tion regulations, 5591, 6934A, 8198,
 14184, 15685
 commercial air service, etc., laws, compila-
 tion, 3942
 commercial aviation from 1926 to date,
 growth, etc. (remarks), 257
 emerging patterns in regulation of local air
 carriers (remarks), 15129
 financial statistics—
 quarterly and 12-month, 2570
 supplement, 2569

Air carriers—Continued

flight to grandmother's, 9743
international transportation offenses and certain other acts committed on board, convention—
report, 7997
text, 1723
loans, Government guaranty, amend act, hearing, 404
local service—
fares, routes (address), 15128
industry, problems and challenges (address), 256
unit costs, 12026
operations inspector's handbook, 15690
promotional fares, stimulus or demon? (address), 12024
safety in air taxi operations (remarks), 2324
scheduled with helicopters, certifications and operations, Federal aviation regulations, change, 16979
specially prepared spots (remarks), 16675
supplemental, terms, conditions and limitations of certificates to engage in air transportation, CAB economic regulations, 255
traffic statistics—
monthly and 12-month, 2571
supplement, 2569
transportation of dangerous articles and magnetized materials, Federal aviation regulations, 4241, 14186
U.S. air carrier accidents—
1966 annual review, 6103
1967 annual review, 6104
U.S. operations, 1967 analysis of aircraft accident data, 7363
United States carriers, list, 13779
youth fare case (remarks), 9175
Air conditioning:
equipment—
current industrial reports, 3835
Federal item identification guides for supply cataloging, supplements, 2845
shipments, 1958-67, patterns of industrial growth, 11975
Kennedy Round, special report, 2045
machines, commodity report, use of market share reports, 6541
training aid, 10245
Air conditioning mechanics, see Mechanics (persons).
Air crews, see Flight crews.
Air-cured tobacco, see Tobacco.
Air cushion vehicles:
plenum air cushion, including passive and active control concepts, heave response, 8649
surveymarine, hovercraft, high speed hydrographic survey platform, 10222
Air drop operations:
airdrop of supplies and equipment, Army technical manuals, 179, 1582, 3781, 6443
loading environment and related requirements for platform rigged airdrop material, military standard, 543
Air environment, 180-ksi yield strength steels, fatigue crack growth studies, 2355
Air flow, see Flow.
Air Force:
active duty promotion list, 5078
aeronautical charts, latest editions, 3031
aerospace nurse date book, 15008
Air Force civil engineer (periodical), 2572
Air Force officer performance factor ratings, stereotyped patterns, 9005
Air Staff, organization chart, 2576
airfield lighting, evaluation of United States portable system, 15694
airman, official magazine of Air Force, 2581
airmen—
occupational handbook, manual for guidance counselor, 15023
qualifying examination and Armed Forces qualifying test norms, relationship, 5069

Air Force—Continued

Assistant Secretary—
Installations and Logistics, nomination of Philip N. Whittaker, hearing, 15417
Manpower and Reserve Affairs, nomination of Curtis W. Tarr, hearings, 9447
career opportunities—
Air Force, 6422
civil engineering, as a civilian, 1529
let's go Air Force! guide, 6413
officers, aerospace leadership, guide, 67
physicians, 106
ROTC cadets, 76
survey of 28 Air Force career ladders with 19 job inventories, 8997
character of Air Force dentistry, 3691
Chief of Staff, nomination of John D. Ryan, hearing, 15416
composites, development and standardization for Armed Services vocational aptitude battery, 10504
comptroller (periodical), 2573
control over inventories in Europe, GAO report, 11204
design manual, 10514
criteria and standards for construction, 5073
driver, traffic safety magazine, 2774
enlistment, reasons for, 3675
eye opacities in flying personnel, 3693
foreign students for training in United States Air Force, selection of, 6403
German—
command and leadership, 13637
1919-39, development, 13636
guidance counselors, information material for, 11916
historical studies series, 13636-637
instructors journal, 3551
Korea, build-up, 5th Air Force report, 13619
lithograph series, 11897, 13621-624
announcement and order form, 7412
lunar wall mosaic—
LEC-1, lunar earthside chart, 7631
LEM-1B, lunar earthside hemisphere, 5086
manpower determinants, 7620
noncommissioned officer, 10522
of flight and bold men, 16569
Officer Training School, gateway to leadership, 5082
officers—
adjusted OER scores with inflation effects removed, 10506
classification manual, 8999
effectiveness report as performance measure, research review, 11889, 16560
estimates of OER distributions by Air Force officers, 11890
interpretation and utilization of scores on Air Force officer qualifying test, 11891
prediction of performance and retention from selected characteristics of college attended, 10510
qualifying test scores, effect of maturation and educational experience, 8996
scientific and technical, improvement of procurement, utilization, and retention of high quality, 79
selection and classification tests, 1968, development, 3677
you, the Air Force officer, general information, 16576
personnel, physical evaluation for retention, retirement, and separation, manual, 3678
pilots, psychiatric strengths and weaknesses, 3717
post service employment assistance program for overseas terminal assignees, 10519
procurement instruction, revisions, 2574
publications, price list, 4867

Air Force—Continued

questions and answers about Air Force, 10523
 register—
 departmental editions, 7628-29
 document editions, 7841-42
 relation between effectiveness rating and selected characteristics of rating dyads, 6402
 research résumés, 13626
 scientific research, 1962, bibliography, 3674
 simplified approach to manpower management model, 10507-508
 Tachikawa Air Base, Japan, employees, relief, 7867
 travel regulations, 3019
 veterans, transferring military experience to civilian jobs, 2103
 women officers, 7636
 worldwide data personnel system, 74
 writing, administrative communications, 11893
 yellow lenses in Air Force operations, 3701
 youth, special report to, 16566
see also Airmen.

Air Force Academy, Colo.:
 applicants, desired standards of quality, 9003
 assembly—
 1967, final report, 64
 1968, final report, 65
 cadets, class of 1968, predicting 1st year achievement, 3676
 catalog, 10503

Air Force Cambridge Research Laboratories:
 AFCLRL series, 1521-28
 environmental research papers, 1531-34
 geophysics and space data bulletin, 2938
 instrumentation papers, 1535-36
 physical sciences research papers, 1537
 publications, bibliographies, 13634-635
 special bibliography series, 1520
 special reports, 1552, 13634-635

Air Force Department:
 administrative practices, manual, 13610
 AFCLRL series, 1521-28
 AFOSR series, 8995
 Air Force manuals, 68-73, 3678-84, 5070-77, 6404-11, 7620-26, 8999-9002, 10513-515, 11892, 13610-613, 15009-11, 16562-563
 Air Force pamphlets, 74-75, 3685-86, 5078-80, 7627, 10516-519, 11893-895, 13614-616, 15012, 16564-565
 aircraft engine procurement, potential for savings by reduction, GAO report, 14324
 appropriations, 1970, military construction, hearings, 15301
 Assistant Secretary—
 financial management, nomination of Spencer J. Schedler, hearings, 12286
 research and development, nomination of Grant Hansen, hearing, 5427
 environmental research papers, 1531-34
 instrumentation papers, 1535-36
 lunar charts and mosaic series, 5086
 missile procurement funds use to finance research and development efforts, GAO report, 9880
 OAR series, 3689, 7632-34, 11898-899, 13626, 15016
 operation and maintenance contracts, potential savings by improving evaluation of competitive proposals, GAO report, 8335
 Personnel Research Laboratory, technical reports, 79, 3690, 9005
 personnel research reports, 1954-68, abstracts, 16561
 physical sciences research papers, 1537
 procurement law, 9002
 real property conveyance to Okaloosa County Board of Public Information, hearings, 15303

Air Force Department—Continued

research, development, test, and evaluation, appropriations, 1970, hearings, 16809
 savings attainable by preventing condemnation of economically repairable equipment, GAO report, 723
 Science and Engineering Symposium, proceedings, 7633-34
 Secretary, nomination of Robert C. Seamans, jr., hearings, 4072
 special reports of Air Force Cambridge Research Laboratories, 1552, 13634-635
 Under Secretary, nomination of John L. McLucas, hearings, 5427
 Air Force hospitals, medical food service computerization study, 10531
 Air Force Human Resources Laboratory, technical reports, 3675-77, 5069, 6402-3, 8996-98, 10504-512, 11888-891, 16560-561
 Air Force installations, *see* Installations (military).
 Air Force Medical Service:
 annual reports, 1553, 15024
 digest, 3546
 physiological technicians' training manual, 5075
 Air Force Nurse Corps, *see* Nurse Corps, Air Force.
 Air Force Office of Scientific Research, AFOSR series, 3674, 8995
 Air Force Reserve:
 air reservist (periodical), 2575
 general officers, nominations for appointment in grade of major and brigadier generals—
 hearing, 14016
 report, 16847
 medical or dental program, make your practice perfect as member, 6414
 military personnel, personnel administration, 10513
 Air Force supplies, *see* Military supplies.
 Air Force Systems Command:
 general information, 5085, 15013
 manuals, 3687, 11896, 15014
 Air frames, *see* Airframes.
 Air inlets (aircraft):
 bicone mixed-compression inlet for Mach 1.80 to 2.50, characteristics study, 7268
 engine, particle separator for CV-7A aircraft, design and component test, 180
 internal-compression supersonic inlet, numerical analysis of use of perforated walls to control shock location and movement, 13141
 Mach 2.5 axisymmetric inlet with engine or cold pipe and utilizing 60 percent supersonic internal area contraction, dynamic response, 13116
 mixed compression 2-dimensional inlets with low-angle cowls for Mach number range 2.70 to 1.80, characteristic design study, 13111
 supersonic inlets—
 design by computer program incorporating method of characteristics, 2258
 dynamics, mathematical analysis, 2263
 Air jets:
 conveyors, for seed cotton and cottonseed handling, 4
 forces and moments due to, exhausting parallel to large flat plates in near vacuum, 8630
 mixing of compressible air jets in coaxial configuration, experimental investigation, 11492
 see also Jets.
 Air lines, *see* Air carriers.
 Air mail:
 FAA and expanding airmail traffic, staff study, 1851

Air mail—Continued

oversea Armed Forces, provide additional free letter mail and air transportation mailing privileges hearing, 6726
13-cent Human Rights Year commemorative aerogramme—
address, 2389
poster, 1304

Air movement of Fleet Marine Force units, 2128

Air National Guard, *see* National Guard.

Air navigation:
facilities, U.S. standard flight inspection manual, change, 5600
flight navigator written test guide, 12585
flight services handbooks, 6424-25, 9013, 11919

Greenland and Faroe Islands, joint financing of services, agreement with other governments, 2500

Indirect viewing system for lifting-body terminal-area navigation and landing tasks, evaluation, 11488

navigator (periodical), 3179

Pacific chart supplement (periodical) 3235

Air pilots, *see* Aviators.

Air piracy:

aircraft, preliminary report, 5360
Caribbean area, report, 3988
convention on offenses and certain other acts committed on board aircraft, 1723 report, 7997
hijacking, selected references, 11036

Air pollution:

abatement by Federal facilities, report, 5393

print as Senate document, report, 6757
air conservation, whose responsibility (address), 4869

air pollutant detection by remote sensors, study, 13045

air-pollution-monitoring instrumentation, survey, 8608

air quality act—
cost of clean air, report, 15819
guidelines for development of air quality standards and implementation plans, 10304
law, compilation, 493

progress in prevention and control, report, 433

air quality control regions—

designate, report, 433

report for consultation—

Baltimore Intrastate, 10332
Boston Intrastate, 4895
Buffalo, 6199
Cincinnati Interstate, 6201
Cleveland Intrastate, 6200
Dallas-Ft. Worth Intrastate, 17356
Dayton Intrastate, 16369
Hartford-Springfield Interstate, 8813
Houston-Galveston Intrastate, 17354
Indianapolis Intrastate, 10323
Kansas City Interstate, 7426
Louisville Interstate, 17355
Milwaukee Intrastate, 13369
Minneapolis-St. Paul, 10334
New Jersey-New York-Connecticut Interstate area, 13368

Phoenix-Tucson Intrastate, 17357

Pittsburgh Intrastate, 6202

Providence Interstate, 13370

Puget Sound, 13371

San Francisco Bay Area, 4896

Stebenville-Weirton-Wheeling, 14803

Washington, D.C. National Capital Interstate, 11636

air quality criteria—

hearings, 500, 8089

particulate matter, 16356

sulfur oxides, 16357

air quality, data, from national air sampling networks, etc., 4871

Air pollution—Continued

aircraft engine exhaust emissions, nature and control, HEW report, 5392
aspects, odors, visibility, and art, 16371
atmospheric dispersion estimates, workbook, 10303

atmospheric emissions from hydrochloric acid manufacturing processes, 17345

bibliography, 11603

translations, 13355

Clean air act—

amend—

hearing, 10795

reports, 10881, 12159, 15254

law, compilations, 493, 5458

compacts, 1968, hearings, 8089

control—

agriculture-related pollution, report, 3634

control and research activities, cost of clean air, report, 15819

economic impact on secondary non-ferrous metals industry, 9093

fuels and motor vehicles, research, hearings, 10795

inertial separation chamber for controlling air pollutants emitted by cotton gin plants, 11789

particulate air pollutants, techniques, 4885

photochemical, tobacco as sensitive monitor, 13354

program support under Air quality act of 1967, general information, 4870

sulfur oxide pollutants, techniques, 4886

cost of clean air, report, print as Senate document, report, 16859

electric power and natural gas industries, staff report, 12616

environmental health series, 4878, 10303, 17336

environmental measurements, valid data and logical interpretation, symposium, 4878

environmental quality, national policy, congressional white paper, 418

gas chromatography used to study, 15920

hygienic significance of metaphos as atmospheric pollutant, USSR study, 15904

laws, compilation, 493, 5458

NAPCA—
progress toward cleaner air (address), 10322

signposts of progress in conserving natural environment, 10323

planning grants, guidelines, 16345

politics of pollution, transcript of radio presentation, 1344

problem (remarks), 11634

progress in prevention and control, HEW report, 433, 5394

print as Senate document, report, 6758

progress in State and local control under Clean air act, 16367

public policy and air pollution control (address), 13363

research, radiotracer procedures for mechanistic studies, 16103

role of science and technology in pollution abatement—

congressional white paper, 418

report, 3999

St. Louis dispersion study, analysis, 7425

search for low-emission vehicle, staff report, 8059

sources and their control, 2431

sulfur oxides, Federal research and development—

pollution control, planning and programming, 2410

program on pollution abatement, report, 6685

tail stacks, various atmospheric phenomena, and related aspects, 13356

bibliography, 1349

Air pollution—Continued
 Thanksgiving 1966 air pollution episode in Eastern United States, 1341
 trends in control regulations (paper), 1337S
 Air Pollution Control Administration, *see* National Air Pollution Control Administration.
 Air Pollution Technical Information Center, bulletin, 16336
 Air power, U.S. tactical air power program, investigation, subcommittee report, 1734
 Air Products and Chemicals, Inc., motor carrier accident, 11395
 Air quality act, *see* Air pollution.
 Air Quality Advisory Board, establish, law, compilation, 493
 Air raids, U.S. halts bombing of North Vietnam, 1440
 Air reservist (periodical), 2575
 Air Resources Laboratories, ESSA technical memorandums, RLTM-ARL series, 613
 Air routes, *see* Airways.
 Air safety, *see* Safety of life.
 Air samplers, stratospheric, investigation of recirculation, 7679
 Air scoops, ram-air-inflated balloon recovery systems with peripheral air scoops, low-speed deployment, inflation, and steady-descent characteristics, 13073
 Air service, *see* Aeronautics.—Air carriers.
 Air speed:
 critical-speed analysis of rigid rotors on flexible foundations, 1084, 13066
 reduced for landing approach on flying qualities of large jet transport equipped with powered lift, effects, 1059
 hypersonic—
 flutter analysis using measured static aerodynamic derivatives and comparison with experiment, 10144
 X-15 airplane and model, flow-field investigations, 1061
 low speeds for delta wings, tuft-grid surveys, 6006
 subsonic and transonic speeds, effect on base drag of recessing bases of conical bodies, 1064
 transonic speeds, effects of flexibility on lift and pitching moment characteristics of series of low-aspect-ratio wing-body combination at, 1051
 Air support, 17163
 Air tankers, *see* Tankers.
 Air taxi operators, *see* Air carriers.
 Air terminals, *see* Terminals (transportation).
 Air transportation, *see* Air carriers.
 Air traffic:
 activity, FAA report—
 1968, calendar year, 6926
 1969 fiscal year, 14183
 air carrier statistics—
 monthly and 12-month, 2571
 supplement, 2569
 Air traffic and airport congestion, bibliography, 8194
 airport and airways congestion problems (address), 15125
 Army operations, field manual, 3752
 control—
 contractions used by FAA, etc., handbooks, 1554, 6423, 15025
 Eldophor, technical evaluation, 6314
 en route, 107, 7637, 9012, 15026
 facility management, 11917-918
 facility operation, handbook, 624, 5587, 9738
 national airspace system (NAS) enroute stage A, maintenance, 6939
 special military operations, handbook, 5087, 9014, 13642
 supersonic transport in future, systems, simulation studies, 4743, 2244

Air traffic—Continued
 control—continued
 system shakedown tests (C2ON) NAS en route Stage A model 1, functional package A, flight data processing, 15693
 terminal, changes, 108, 5088, 9015, 13643
 en route IFR survey, peak day, 9737
 holding patterns, 11920
 midair collisions in U.S. civil aviation, 1968 special accident prevention study, 13206
 military, activity report, 14189
 national airspace system, NAS en route stage A system, 14190
 national aviation system planning review conference, annual summary report, 14187
 navigable airspace, objects affecting, Federal aviation regulations, change, 4237-38
 patterns for IFR and VFR aviation, 15679
 personnel, flight services handbooks, 6424-25, 9013, 11919
 security control, Federal aviation regulations, 6934, 14186
 special rules, and airport traffic patterns, Federal aviation regulations, 4240, 6933, 8196-97, 14186
 terminal ATC facilities, expansion of automation, 14936
 trainee aptitude-test measures involving Navy, Marine Corps, and FAA controllers comparative study, 7723
 training, 13639
 Washington National and Dulles International Airports, forecasts, 1968-74 fiscal years, 4249
 see also Airports.
 Air traffic controllers:
 air traffic trainee aptitude-test measures involving Navy, Marine Corps, and FAA controllers, comparative study, 7723
 control specialists, examination announcement, 275
 Air transportation, *see* Aeronautics—Air carriers.—Transportation.
 Air University Library:
 index to military periodicals, 2577
 research reports, abstracts, 13617
 special bibliography series, 11907-915, 15022
 Air University review, 2578
 Air Weather Service:
 manuals, 6412, 16567
 technical reports, 3688, 5081, 13618
 weather modification program, FY 1969, annual survey report, 13618
 Airborne foreign trade, 2919
 Airborne measurements of terrestrial radioactivity as aid to geologic mapping, 1963
 Airborne operations, ESSA Research Flight Facility, facilities for airborne atmospheric research, 15676
 Aircarriers, *see* Air carriers.
 Aircraft:
 air support, Fleet Marine force manual, 17163
 aircraft and—
 aircraft engines, current industrial reports, 2732, 9127
 related products identification and registration marking, Federal aviation regulations, 5590, 12583
 satellite observations, correlation with surface measurements of snow and ice, 10542
 airworthiness—
 certification and related approvals, 12593
 FAA directives, 11044, 12583
 alterations, acceptable methods, techniques, and practices, 2547, 14178

Aircraft—Continued

analysis of numerical integration techniques for real-time digital flight simulation, 1117

arrow-wing-body model at Mach numbers of 1.60, 2.36, and 2.96, flow-field properties, 1060

aviation forecasts, fiscal years 1968-79, 12580

avoidance of missiles, USSR study, 8511

basic pilot training aircraft, agreement with Indonesia 17408

certification procedures for products and parts, Federal aviation regulations, 6928, 12583

civil—

- aircraft register, 5599
- technical standard order authorization, Federal aviation regulations, 12583
- United States, Dec. 31, 1967, census, 5586

Coast Guard, authorization for procurement—

- hearings, 6724, 12292
- law, 15197
- reports, 7889, 7895, 10868

cockpit noise intensity—

- eleven twin-engine light aircraft, 9090
- fifteen single-engine light aircraft, 7727

components and accessories, Federal item identification guides for supply cataloging, supplements, 2850

composite research aircraft—

- hot cycle rotor/wing, 6450
- tilt prop-rotor, 6451

dynamics of spatial motion, 8658

effects of severe atmospheric conditions, USSR study, 12901

emergency procedures over water, 3887

experiments with icephobic surfaces, 13644

F-4EJ aircraft, acquisition and production agreement with Japan, 8900

FAA aircraft program data feedback (periodical), 2812

Federal item identification guides for supply cataloging, 2850

flexible-wing manned test vehicle, XV-SA, inspection repairs and modifications, and flight test, 1583

fuel systems, conference on fire safety measures, report, 4288

gas turbines, small high-performance, feasibility of gas bearings, 6458

general-aviation, a navigation-aids identification decoder and display, 17224

general operating and flight rules, Federal aviation regulations 1853, 4239, 6931-32, 14186, 14246

handling qualities, use of pilot rating in evaluation, 8633

high speed, crack toughness characteristics in heavy section alloys, 5993

hypersonic aircraft structure, exploratory study of open-face honeycomb to reduce temperature, 11482

icing, forecasters' guide, 6412

indirect viewing system for lifting-body terminal-area navigation and landing tasks, 11488

industry, 1957-68 R & D 14716

inspection aids, general aviation, 2935, 14246

inspection and repair, acceptable methods, techniques, and practices, 2548, 4230, 14179, 15678

interior materials, smoke and gases produced by burning, 6038

jet transport model—

- equipped with external-flow jet-augmented flaps, static and dynamic stability derivatives, 14646
- 0.3 scale, having jet-augmented boundary-layer control flap with direct-lift control, capability, investigation, 11445

Aircraft—Continued

jet V/STOL model, effect of jet-exhaust location on longitudinal aerodynamic characteristics, 13113

large—

- airworthiness directives, summaries, 1856, 3480, 9747 12599, 15695
- commercial operators, certification and operations, Federal aviation regulations, 5591, 6934A, 8198, 14184, 15685
- lateral-directional handling qualities and pilot rating variability, fixed-base simulator pilot rating surveys for predicting, 14615
- lifting surfaces with trailing-edge controls, etc. development of 3-dimensional pressure-distribution functions, 17220
- light, potential structural materials and design concepts, 7229
- lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
- maintenance, preventive maintenance, rebuilding and alteration, Federal aviation regulations, 5589, 12584
- manufacturing occupations, employment outlook, 4568
- methane-fueled SST, influence of high-turbine-inlet-temperature engines when takeoff jet noise limits are considered, 2260
- metropolitan area, Washington, D.C., pilot transportation study, 1722
- midair collisions in U.S. civil aviation, 1968 special accident prevention study, 13206
- military aircrew station geometry, military standard, 14107
- military procurement, appropriations, 1969, supplemental—

 - hearings, 5367
 - reports 6690, 6697

- military procurement appropriations, 1970—

 - hearings, 10887, 15302
 - reports, 12258, 15295, 16772

- national aviation system planning review conference, annual summary report, 14187
- naval, design of electric systems, technical manual, 10213
- navigation, theory and practice, 4758
- noise—

 - abatement program, Federal Aviation Administration, 12582
 - attenuation provided by flight helmets, manikin measurements, 14503
 - problem and Federal Government policy, 12579
 - sonic boom—

 - effects of operations, 12581
 - research and development (paper), 15680

- obstruction marking and lighting standards, FAA standards, change, 5595
- operational limitations in flying noise-abatement approaches, 17243
- operating cost and performance, report, 1966 and 1967 calendar years, 253
- path of jet directed at large angles to subsonic free stream, 1132
- purchase loans to air carriers, Government guaranty, amend act, hearing, 404
- recirculation effects produced by pair of heated jets impinging on ground plane, 8590
- registration, Federal aviation regulations 6929, 12583
- rocket launchers, procurement, report, 3991
- savings available by using space on military aircraft to transport baggage between United States and Pacific and Southeast Asia, GAO report, 9879

Aircraft—Continued

- search and rescue operations for U.S. citizens and craft in foreign areas, bearing, 7959
- simulation of package transfer concepts for Saturn I orbital workshop, 10107
- slender sharp-edge delta wings in ground proximity, lift and drag prediction, 4704
- slender wing-body combinations exhibiting leading-edge separation, aerodynamics theoretical investigation, errata, 992
- small—
 - air taxi operators and commercial operators, Federal aviation regulations, change, 16980
 - airworthiness directives, summary, 1857, 3481, 9848, 15696
- STOL—
 - equipped with external flow jet flap, wind-tunnel investigation, 14617
 - operational evaluation and related developments (paper), 13645
 - transport aircraft, flight tests under 1Fk, 1143
- stopped-stowed rotor composite research aircraft, 6452
- subsonic and supersonic, fluid mechanical problems, report, 1041
- subsonic jet aircraft, progress of NASA research relating to noise alleviation, 2210
- subsonic jet transports, calculated and flight-measured handling-qualities factors, 1068
- supersonic flow field about axisymmetric body with N wave pressure trace, estimate, 1141
- supersonic jet, stall and spin, critical regimes, 13144
- supersonic transports—
 - helium pressurization systems for liquid-methane fuel, 17252
 - in future air traffic control systems, simulation studies, 2244
 - operating practices during simulated operations on future air traffic control system environments, 4743
 - simulation studies of some instrumentation requirements and operating problems, 13088
 - tentative airworthiness standards, 12665
 - with variable-sweep wings large-scale wind-tunnel investigation to improve low-speed longitudinal stability at high lift, 4733
- supplemental type certificates, 3484
- system shakedown tests (C2ON) NAS en route stage A model 1, functional package A, flight data processing, 15693
- technique for calculating optimum take-off and climbout trajectories for noise abatement, 11450
- third-generation jets and safety (address), 11825
- titles and security documents, recording, Federal aviation regulations, 12583
- transport—
 - large jet model equipped with external-flow jet flap, wind-tunnel investigation, 2238
 - V/STOL concepts, short haul feasibility, 993
- type certificate data sheets and specifications, 2580
- typical subsonic transport fuselage, turbulent boundary layer, experimental investigation, 11464
- U.S. supersonic transport program, fuel considerations, 12587
- V/STOL—
 - ducted-propeller model, quad configuration, dynamic stability characteristics, investigation, 13669

Aircraft—Continued

- V/STOL—Continued
 - lifting surface theory and tail downwash calculations, in transition and cruise, 3784
 - models, use of superposition in digital computers to obtain wind-tunnel interference factors for arbitrary configurations, 6025
 - quad configuration, ducted propeller model, investigation, 3782
 - hovering, 1584
 - longitudinal dynamics at high duct incidence data report, 181
 - tilting wing, large semispan, with 0.4-diameter-chord, etc., pressure distribution, 17231
- verticraft/powered lift transport category aircraft, tentative airworthiness standards, 12666
- VTOL—
 - comparison of information display concepts for landing, 1086
 - composite-lift, conversion from wing lift to rotor lift, wind-tunnel and analytical study, 11471
 - composite-lift model steady-state aerodynamics wind tunnel investigation, 11460
 - deflected jet, direct side-force maneuvering system investigation, S638
 - jet, hot gas recirculation and ingestion, generalized experimental investigation, 1003
 - model test on jet-induced lift effects, 7233
 - simultaneous usage of attitude control for maneuvering determined by insight simulation, 13119
 - six-degrees-of-freedom motion simulator for hovering tasks, 14630
 - tilting wing, large semispan, with 0.4-diameter chord, single-slotted flap, and single propeller, chord below wing, aerodynamic data, 4741
 - tip-turbine-driven fans for lateral control, hovering flight evaluation, 17238
 - XB-70, canard loads, canard buffeting, and ejection and wing-tip hinge moments, including comparisons with predictions, flight measurements, 13132
 - see also Air carriers—Aircraft accidents—Airplanes—Helicopters—Spacecraft—also names of aircraft parts, e.g., Propellers
- Aircraft accidents:
 - air taxi operations, general aviation briefs, 6106-8
 - analysis of data, U.S. air carrier operations, 7363
 - briefs, accidents involving—
 - aerial applications operations, 16286
 - amateur built (homebuilt) aircraft, 6109
 - mid-air collisions, 6110
 - rotorcraft aircraft, 16287
 - civil aviation, briefs (periodical), 2630
 - collision avoidance, bibliography, 4231
 - crash litigation—
 - proposals to create Federal remedy for persons injured or killed through operation of aircraft, hearings, 5453
 - provide Federal jurisdiction and body of uniform Federal law, hearings, 12306
 - crash-resistant flammable fluids system for UH-1A helicopter, development, 10554
 - crash survival design guide, 15058
 - data, U.S. civil aviation, 1968, preliminary analysis, 8739
 - drug and toxic hazards in general aviation, 7724
 - experimental impact protection with advanced restraint systems, preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness, 16636

Aircraft accidents—Continued
 general aviation—
 air taxi operations, analysis of 1964-66 accidents, 6101
 analysis of data, 6102
 annual review, 6105
 human survival in emergencies, 4678
 investigation reports, 6100, 14717, 16282-285
 midair collisions in U.S. civil aviation, 1968, special accident prevention study, 13206
 near midair collision, 1968, report, 16384
 pathology of trauma attributed to restraint systems, 16635
 procedures and methods of investigation (paper), 13205
 systems approach to accident investigation (paper), 17297
 U.S. air carrier accidents—
 1966 annual review, 6103
 1967 annual review, 6104
 U.S. general, medical factors, 10584
 Aircraft automatic pilots, flight investigation of fluid autopilot system, 13099
 Aircraft controllers, *see* Air traffic controllers.
 Aircraft Development Service:
 report FAA DS series, 13646
 reports, listing, 6426, 11924
 Aircraft dispatcher, written test guide, 5583
 Aircraft engines, *see* Engines (aircraft).
 Aircraft fuel, *see* Motor fuel.
 Aircraft mechanics, *see* Mechanics (persons).
 Aircraft repair stations:
 aircraft maintenance and repair shop
 specialized equipment, 6827
 FAA, certificated, consolidated listing, 1850
 Federal aviation regulations, 12584
 radium contamination in instrument repair facilities, evaluation, 14790
 Aircraft simulators, dissimilar aircraft simulators, comparisons of effect or peripheral vision cues on pilot performance during instrument flight, 10579
 Aircrews, *see* Flight crews.
 Airdrop operations, *see* Air drop operations.
 Airfields, *see* Airports—Aviation fields—Heliports—Pavements.
 Airfoils:
 thin, oscillating near stall, wind tunnel tests—
 data report, 6460
 summary and evaluation, 6459
 Airframes, structural component, Federal item identification guides for supply cataloging, supplements, 2850
 Airglow, aurorae and airglow, results of research on International Geophysical projects, 6026
 Airline employees, craft or class determination of National Mediation Board, 11547
 Airlines, *see* Air carriers—Airline employees.
 Airmail, *see* Air mail.
 Airmen:
 administrative airmen, comparing prediction of job performance ratings from trait ratings, 11888
 airman's information manuals, 2582-84, 6925, 16975
 airmen other than flight crewmembers, certification Federal aviation regulations, 16978
 Alaska airman's guide and chart supplement (periodical), 5584
 basic airmen, panoramic survey of teeth, 11905
 classification test, 1968, development and standardization, 8998
 double delta wing, including longitudinal and lateral characteristics and ground effects, large-scale tests on model, 7276
 job-associated problems encountered in southeast Asia by returnees, 10511

Airmen—Continued
 occupational handbook, manual for guidance counselors, 15023
 physical standards, medical certificates, Federal aviation regulations, 6930
 relationship between airman qualifying examination and Armed Forces qualifying test norm, 5069
 usage of combined airman certification by active airmen, an active airman population estimate, 210
 weighted airman promotion system, 13638
 field test, analysis of promotion board component in weighted factors system, 10512
 see also Air Force—Flight crews—Notice to airmen.
 Airplane accidents, *see* Aircraft accidents.
 Airplane mechanics, *see* Mechanics (persons).
 Airplanes:
 air travel clubs using large airplanes, certification and operations, Federal aviation regulations, 9742, 15686
 airline transport pilot, written test guide, 1847
 airworthiness standards, transport category, Federal aviation regulations, 1852, 4235, 8195
 denting of surfaces by hail, analytical evaluation, 13134
 EC-121, incident, inquiry—
 hearings, 12295
 special subcommittee report, 12207
 fatigue of notched Ti-8Al-1Mo-1V titanium alloy at room temperature and 550 F (560 K) with flight-by flight loading representative of supersonic transport, 11486
 large jet transport equipped with powered lift, effects of reduced airspeed for landing approach on flying qualities, 1059
 light twin-engine airplane, full-scale wind-tunnel investigation of static longitudinal and lateral characteristics, 4716
 supersonic transport—
 low subsonic flight and force investigation of model with variable-sweep wing, 1053
 SST design, with applications to synthesis methods for manual aerospace control systems, 2191
 wind-tunnel investigation of low-speed high-lift aerodynamics of one-fifth scale variable-sweep, 1076
 t-tail deflected-elevator flutter, encountered, wind-tunnel study, 4746
 turbojet, aerodynamics and flight dynamics, 16209
 twin-jet—
 afterbody model, effect of jet velocity and axial location of nozzle exit on performance, 16161
 fighter, at high angles of attack, analysis of lateral-directional stability characteristics, 14616
 swept-wing fighter, analysis of flat-spin characteristics, 16166
 twin propeller deflected slipstream STOL model with boundary-layer control on inverted V-tail, aerodynamic characteristics, 1082
 variability in sonic boom signatures measured along 8000-foot linear array, 4747
 vertical-takeoff, 2 dimensional inviscid model of jet impingement, analysis, 13092
 VTOL, flow in lift fan inlets without cross-flow, analysis, 6013
 X-15—
 and model up to hypersonic speeds, flow-field investigations, 1061
 horizontal stabilizer, evaluation of infrared heating simulation of Mach 4.63 flight, 16165
 XB-70, cockpit environmental data, summary, 16189
 see also Aircraft.

Airports:

activity statistics of certificated route air carriers, 621, 8193
 airfield congestion at selected airports, suggested action program for relief, 9016
 airport and airways congestion problems (remarks), 15126
 Airport and airways development act of 1969, hearings, 15323-324
 airport/airways development, determining appropriate course of Federal action for coming years, hearings, 14020
 Airport development act of 1969, hearings, 15323-324
 airport emergency operations planning, 622
 approved lighting equipment, 1849
 Army airfield-hellport operational and maintenance facilities, technical manual, change, 3779
 Atlanta, Ga., 1980 metropolitan area capacity analysis, staff study, 13649
 aviation facilities maintenance and development, hearings, 15323-324
 capacity criteria used in long-range planning, 9735
 civil use of U.S. Government instrument approach procedure charts, 11038
 climatological summaries—
 Atlanta Airport, Atlanta, Ga., 16489
 Friendship International Airport, Baltimore, Md., 16490
 General E. L. Logan International Airport, Boston, Mass., 16492
 International Airport, Anchorage, Alaska, 16488
 International Airport, Birmingham, Ala., 16491
 design and cities considerations (remarks), 15127
 design standards, general aviation airports, basic and general transport, 14180
 development, legal aspects (address), 12025
 directory, airman's information manuals, 2583, 6925, 16975
 Federal act—
 extend, hearings, 15323-324
 FAA operations, annual report, 11035
 Federal aid program—
 Federal aviation regulations, changes, 4244, 6935-37, 8199, 14185, 16981
 labor requirements in contracts, 15691
 Federal airport act, repeal hearings, 15337
 grooved runways, general-aviation pilot reactions and opinions, 14591
 round access problem, report on dimensions, 12627
 Houston Intercontinental Airport, Houston, Tex., dedication (address), 9174
 International, 3-track runway and taxiway profiles measured, 16187
 jet airport problems at Everglades National Park, hearings, 15461
 legislation for improvements, etc., 15681
 lighting—
 evaluation of Air Force portable system, 15694
 installation details for runway centerline and touchdown zone lighting systems, 11047
 location identifiers, handbook, 3087
 national airport system, opportunities for development, 13648
 National Capital Federal aviation regulations, 16981
 changes, 4246-47
 noise problem and Federal Government policy, 12579
 notice of construction, alteration, activation, and deactivation, 8200
 planning and airport layout plans, 1848

Airports—Continued

projects which sponsors are prepared to undertake during fiscal year 1969 and for which they have requested Federal financial assistance, list, 5089
 property, release from surplus property disposal restrictions, Federal aviation regulations, 16981
 public, acquisition of U.S. land, Federal aviation regulations, 4245, 6938, 11041, 16981
 public, affected by agreements with Federal government, list, 12589
 specially prepared spots (remarks), 16675
 State airport system planning, guide, 5090
 terminal buildings, fallout shelters in, 9739
 user charges, imposition of tax, hearings, 15337
 utility, air access to national transportation, 8205
 Wake Island Code, Federal aviation regulations, change, 8201, 16981
 Washington National and Dulles International Airport, 1969-80, forecasts, 12601
 see also Air traffic—Pavements—*also* names of places where located.
 Airspace utilization, *see* Air traffic.
 Airstreams:
 effect of free stream turbulence on coaxial mixing, 10081
 helium penetration and spreading in Mach 2 airstream using delta wing injector, study, 11494
 high-temperature, supersonic evaluation of coated molybdenum and columbium alloys, 1100
 nonequilibrium air streams in Ames 1-foot shock tunnel, analysis, 4717
 photographic study of bromine jet flowing in coaxial airstream and impinging on stagnation surface, 8650
 two supersonic airstreams in presence of shock waves momentum diffusion, preliminary investigation, 4712
 Airways:
 airport/airways development, determining appropriate course of Federal action for coming years, hearings, 14020
 controlled airspace and reporting points, designation, Federal aviation regulations, 11040
 development, legal aspects (address), 12025
 facilities sector level, maintenance staffing criteria and standards, handbook, 16982
 instrument flight rules off-airway routes (non part 95), 11921
 legislation for improvements, etc., 15681
 navigable airspace, objects affecting, Federal aviation regulations, 4237-38
 off-airway routes (non part 95), 3718
 our crowded airways, cause & cure (address), 12597
 user act of 1968, proposed legislation, analysis, 1716
 user charges, imposition of tax, hearings, 15337
 Airworthiness, *see* Aircraft—Airplanes—Rotorcraft.
 Aitken, George W., digital solution of modified Berggren equation to calculate depths of freeze or thaw in multilayered systems, 5110
 Akamine, E. K., dosimetry, tolerance, and shelf life extension related to disinfection of fruits and vegetables by gamma irradiation, 1606
 Akima, Hiroshi, method of smooth curve fitting, 6916
 Akron, Ohio, area wage survey, 2109

Alabama:

- Agricultural Stabilization and Conservation Service—
 - annual Congressional summary, 11802
 - annual report, 11803-804
- Alabama statehood, 6-cent commemorative postage stamp (poster), 11589
- Appalachian region, raw materials for lightweight aggregate, 5963
- census of business, 1967, retail trade, area statistics, 11982
- climatological data, 2662
- coal mines, waste disposal costs, 7208
- dealers in trout and pondfishes, list, 11680
- Federal outlays, report of Federal Government's impact by State and county, 9533, 9583
- flotation of muscovite from graphitic-mica schist ore, 10064
- landings, fish and fisheries, 2585
- loblolly pines in plantations on abandoned fields, volume tables and point-sampling factors, 8313
- longleaf pine regeneration in mountain and Piedmont provinces, 1930
- mineral industry, minerals yearbook chapter, 945
- northwestern, forest inventory statistics, Lauderdale County unit, 11741
- 150th anniversary of founding, commemorative medals:
 - law, 12114
 - reports, 9313, 9408
- pollution of interstate waters of Coosa River and its tributaries, conference proceedings, 662
- postal map, 10278
- precipitation data, hourly, 2962
- shortleaf pines in plantations on abandoned fields, volume tables and point-sampling factors, 8317
- soil survey laboratory data and descriptions, 13448
- uranium reconnaissance, preliminary, 13712

Alarm systems:

- Federal item identification guides for supply cataloging, supplements, 2846
- minimum security devices and procedures for Federal reserve banks and State member banks, 4279

Alaska:

- aggregate income model of semi-autonomous economy, 14193
- Agricultural Stabilization and Conservation Service, annual report, 11805
- airman's guide and chart supplement (periodical), 5584
- Alaska file of Secretary of Treasury, pamphlet to accompany microcopy, 1165
- Alaska natives and Federal hire, 12610
- Alaska-Northwest Canada, economic activities—
 - comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
 - regional, political, and communications aspects of development relations, 14195
- Alaskan waters, marine services chart, 14968
- Alaska's economy in case of national economic pause, fiscal strength through oil and gas receipts, 12611
- Army's role in building of Alaska, 11949
- asbestos occurrence in Eagle C-4 quadrangle, 4358
- cedar, bibliography with abstracts, 8308
- census of business, 1967—
 - retail trade, area statistics, 11983
 - wholesale trade, area statistics, 15099
- climatological data, 2662
- coast pilot, supplement, 5277
- coastal, mass wasting, 17052

Alaska—Continued

- coastal warning facilities chart, 14963
- earthquake, 1964—
 - administration of disaster loan program, GAO report, 9873
- aftershocks, Prince William Sound, research studies, 6528, 10634
- effects on communities (series), 14346
- effects on shore processes and beach morphology, 1967
- erosion and deposition on raised beach, Montague Island, 5718
- regional effects (series), 1967, 5718
- east-central—
 - new Paleozoic and Mesozoic formations, 11230
 - potential for lode deposits in Liven-good Gold Placer district, 11233
- economic analysis, subregional, 14199
- economic indicators, 14198
- Eklutna Project, power, features, field review of maintenance, 13400
- electricity for remote Alaskan villages, 16556
- Federal careers in Northwest, 12042-34
- Federal outlays, report of Federal Government's impact by State and county, 9534, 9584
- Federal regulation of transportation, 14197
- ferries, allow operation of foreign-built by Alaska to ports in Seattle for limited time, hearings, 1706
- fire danger indexes for selected coastal stations, summary and analysis, 12720
- fisheries offshore, Japanese, Soviet and South Korean, development and history, 10664
- fishery resources, pink salmon, 6549
- geology of waterpower sites (series), 9884
- grant certain lands to natives, hearings, 4083, 9468, 15321
- graphic arts of Alaskan Eskimo, 14402
- illness among natives, 7420
- industries, summary by standard industrial classification and corporate classification, 14200
- interior—
 - large aspen tortrix, Choristoneura conflictana (Wlkr.), 679
 - 1956-65 wildfires, 17015
 - regeneration of white spruce, literature review, 15775
- land, general information, 12987
- mineral industry, minerals yearbook chapter, 2132
- national wildlife refuges, list, 2468
- native and Indian Public Health Service hospitals, contract hospitals, field health, annual statistical review, 14780
- Native claims settlement act of 1969, hearings, 16887
- native land claims, settle, hearings, 4083, 9486, 15321, 16887
- natives—
 - and the land, 5604
 - dental services 1967, annual report, 2413, 16339
 - national policy resolution, promote improved conditions, report, 439
- Nenana coal field coal-bearing group, 5703
- north slope, oil lease sale (remarks), 15851
- permafrost and related engineering problems, 12786
- potential evapotranspiration and climate by Thornthwaite's classification, 12712
- power survey, 11066
- public lands, oil resources development activities, Interior Department's manpower, funding requirements, and capability to oversee, hearing, 14046
- recreation and government policies, 14196
- relation of scale characteristics to river of origin in 4 stocks of chinook salmon, 5305

Alaska—Continued

- seafood moods, recipes, 16714
- snow surveys, 2875
- southeast—
 - Deer Lake and Kasnyku Lake, Baranof Island, geology of proposed power-sites, 9884
 - hemlock sawfly, 4328
 - old-growth western hemlock and sitka spruce, volume tables and equations, 8293
 - transportation of merchandise in part over Canadian highways, exempt from Merchant marine act, hearings, 1705
- Tyee, Eagle, and Spur Mountain Lakes, geologic reconnaissance of possible power sites, 5697
- trans-Alaska pipeline, construction plans, status, etc., 15463
- transplanting adult pink salmon to Sashin creek, Baranof Island, and survival of their progeny, 13822
- transportation and economic development, policy analysis, 12612
- tsunami of Alaskan earthquake, 1964, engineering evaluation, 4198
- United States Army, Alaska, pamphlet, 11949
- waterborne, commerce—
 - 1966 calendar year, 8183
 - 1967 calendar year, 8184
- waterfowl, coots, and cranes, Federal regulations governing hunting, etc., 13461
- westward, native economy and its resource base, 14201
- Alaska, Gulf of, cyclopoid copepod species from plankton, in deep-water, 14860
- Alaska Native Commission, create, hearings, 4083, 9468, 15321, 16887
- Alaska Native Development Corporation, establish, hearings, 15321, 16887
- Alaska Power Administration:
 - annual report, 5091
 - appropriations, 1970—
 - hearings, 12204
 - report, 15298
- Eklutna project, mechanical equipment, maintenance and operation, field review, 13399
- Alaska Range, eastern, distribution of gold and some base metals in Siana area, 11236
- Albacore, see Tuna fish.
- Albania, background notes, 14895
- Albany, N.Y., area wage survey, 11345
- Albany County, Wyo., platinum and associated elements at New Rambler Mine and vicinity, 1962
- Albedo, and long-wave radiation, atlas of world maps, 1837
- Albemarle Group of N.C., Carolina slate belt, stratigraphy, 4352
- Albeni Falls Dam, Pend Oreille River, northern Idaho, general information, 14147
- Alberico, Nancy V., nitrogen laser power density and some design considerations, 13280
- Albers, James A., design-point performance of double-containment tantalum-and-stainless-steel mercury boiler for SNAP-8, 1137
- Albuquerque, N. Mex., area wage survey, 12972
- Albuquerque Cays, environment and ecologic zonations, 17371
- Albuquerque Job Corps Center for Women, Albuquerque, N. Mex., effectiveness and administration, GAO report, 12734
- Alcohol:
 - and highway safety—
 - counter-measures, 16242
 - 1968 report, 11750
 - denatured, distribution and use, code of Federal regulations, 11298
 - drug and toxic hazards in general aviation, 7724

Alcohol—Continued

- effects on decision-making, with respect to traffic signals, 13350
- Industries, 1967, statistics, 5764
- miscellaneous alcohols and amines, technical grade, military standard, 15528
- problems and transportation safety, need for coordinated efforts, 11556
- revenue rulings, etc., internal revenue bulletin, cumulative, index-digest supplement system, 12832
- supp. 14414
- tax-free, distribution and use, code of Federal regulations, 11299
- taxes, internal revenue bulletin, index-digest, 2993
- Alcohol, Tobacco and Firearms Division, available forms relating to activities of Division, description, 14410
- Alcoholic beverages, see Liquors.
- Alcoholics:
 - community services for persons with drinking problems, major issues in developing, 4898
 - rehabilitation, report, 1368
 - see also Alcohol.
- Alcoholism:
 - impact, examination hearings, 16892
 - key step, program to combat drinking problems among employees, 5261
 - see also Alcoholics.
- Alcoholism, National Advisory Committee on, see National Advisory Committee on Alcoholism.
- Alcott, Louisa May, Centennial for Little Women, annotated selected bibliography, 11363
- Aldabra Atoll, Indian Ocean, ecology, 1380
- Alder:
 - biology of alder, symposium proceedings, 12672
 - Porla weevil survival in alder and mixed conifer-alder stands, 1915
- red—
 - marketing, pulpwood and saw logs, 12700
 - nitrogen enrichment of 2 forest ecosystems, 12714
 - sitka, influence on soil formation and microbiological succession on landslide of alpine origin at Mount Ranier, 12707
- Alder Creek mining district, Idaho, geology, 729
- Aldon, Earl F.:
 - alkali sacaton seedling survival and early growth under temperature and moisture stress, 9856
 - detrital effect of Russianthistle on semi-desert range in west-central New Mexico, 1917
- Aldrich, Robert C., stratifying stand volume on non-stereo aerial photos reduces errors in forest survey estimates, 17053
- Alekseyev, B. V., boundary layer and chemical reactions, 13146
- Alowives, control in Great Lakes hearings, 409
- Alexander, Violet M.:
 - returns from Regular Army—
 - artillery regiments, June 1821-Jan. 1901, pamphlet to accompany micro-copy, 2280
 - infantry regiments, June 1821-Dec. 1916, pamphlet accompanying micro-copy, 2275
- Alfalfa:
 - influence on pasture productivity of crested wheatgrass, 6401
 - 10th technical conference proceedings, 10460
 - varieties, 36
- Alfaro-Bou, Emilio, ballistic limit of aluminum plates determined by exploding oil gun technique, 1047

- Algae:**
 benthic marine algae from Johnston Atoll, record, 8851
 Kapingamarangi Atoll, checklist of cyanophyta, chlorophyta and phaeophyta, 8851
 lichens, title page and table of contents, 4794
 Oocystis polymorpha, thermotolerant green alga suitable for mass culture characteristics, 10327
 solar illuminated algal photosynthetic exchanger, 1540
- Algebra,** efficient method for computation of character tables of finite groups, errata, 2220
- Algeria:**
 background notes, 4948
 Mauritania boundary, study, 4966
 mineral industry, minerals yearbook chapter, 17180
 Spanish Sahara boundary, study, 1445
- Algorithms,** see Mathematics.
- Ali, A. W.,** rate coefficients relevant to H_2 UV laser, 10251
- Aliens:**
 code of Federal regulations, 9800
 commuter, impact along Mexican and Canadian borders, hearings, 6351, 8935
 deportation suspension, report, 13869
 employment in scientific or technical capacity by Secretary of Commerce, report, 10857
 foreign visitor arrivals and non U.S. citizen departures, statistical summary and analysis, 13514
 green card alien, employment during labor disputes, hearings, 13926
 in-migration into United States in professional and related occupations, annual indicator, 15845
 permanent residence, oppose granting to certain aliens, 13906, 16754
 resident, foreign tax credit, 8431
 transfer and sale of U.S. ships to aliens, 17166
 United States tax guide, 8455
 withholding of tax on nonresident aliens and foreign corporations, 8456
- Alignment,** misalignment detector for axial loading fatigue machines, 7328
- Alimony,** payments, income tax deduction, 4410
- Alkali metals,** preparing alkalized alumina, 14557
- Alkali sacaton,** see Grasses.
- Alkalies,** alkalized-alumina attritioning and SO_2 sorption rates, 11390
- Alkyl benzene sulfonates,** see Sulfonates.
- All hands,** Naval Personnel Bureau career publication, 2586
- All-Union:**
 NOTE.—For headings beginning All-Union, see Union of Soviet Socialist Republics.
- Allegheny National Forest,** Annosus root rot, detection survey, 7004
- Allegheny River,** flood plain information, 9662
- Allen, Dwight W.,** model elementary teacher education program, final report, 5547
- Allen, Gabriel,** FORTRAN program for machine computation of group tables of finite groups, 14641
- Allen, James E., jr.:**
 addresses, etc.,
 June 27, 1969, 10990
 June 30, 1969, 10978
 July 8, 1969, 10980
 July 17, 1969, 12441
 Aug. 11, 1969, 14132
 Aug. 20, 1969, 14140
 Sept. 17, 1969, 15630
 Sept. 20, 1969, 15635
 Sept. 23, 1969, 15641
- Allen, James E., jr.—Continued**
 education, quotes and summaries of articles and speeches, 9657
 nomination, hearing, 8083
- Allen, Jerry M.,** charts for interpolation of local skin friction from experimental turbulent velocity profiles, 10099
- Allen, Patton T.,** enhancement of viral quantitation by media supplements and buffers, 11904
- Allen, R. G.,** calculation of retinal burn and flashblindness safe separation distances, 3707
- Allen, Ruth,** annotated bibliography of biomedical computer applications, 10197
- Allen County, Ind.,** soil survey report, 10381
- Allen Park, Mich.,** land transfer to, law, 1681
- Allentown, Pa.,** area wage survey, 4592, 17154
- Allgood, Ferris P.,** soil survey, Major County, Okla., 7467
- Alliance for progress,** see Latin America.
- Allocation,** elementary allocation models, how to use in forestry operations, 17032
- Allowances,** see Pay, allowances, etc.
- Alloys:**
 aluminum, comparison of fracture toughness test procedures, 8763
 beryllium and Be-38Al alloy truss-type structures, design fabrication, and tests, 11469
 copper-rich Cu-Ni-Fe alloys, Mössbauer, effect study of magnetic ordering, errata, 1180
 crack toughness characteristics, for use in heavy sections of high speed aircraft, 5993
 metal, crater characteristics, under hypervelocity impact including effects of projectile density and target temperature, 8627
 oxidation-resistant alloy claddings for IN 100 and WI 52 superalloys, evaluation, 17232
 procedures for analysis of metals, alloys, and other materials for research, 10266
 refractory, solubility, in potassium and in lithium, 11417
 rolled Pb-Cd-Sb alloys, tensile and stress-rupture properties, 14550
 sigma phase formation and its effect on stress-rupture properties of IN-100, 10122
 superalloys, nickel-base superalloy sheet, sensitivity of creep-rupture properties to sharp edge-notches in temperature range, 4679
 W-20 percent Mo alloy fabricated by powder metallurgical methods, homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of, 4762
 see also names of metals, etc.
- Allsman, Paul L.:**
 cement, 930
 gypsum, 16077
 lime, 943
- Alluisi, Earl A.,** effects of practice and work load on performance of code transformation task (COTRAN), 2209
- Alluviums:**
 alluvial, channel, response to changes of hydraulic and sediment-transport variables, 15802
 sediment transport in alluvial channels (series), 15802
- Almanacs:**
 air, 6112, 8742, 16292
 National Institutes of Health, 10193
 nautical calendar year, 7368
- Alouette satellite,** see Satellites.

Alpha particles:

- absolute measurement of alpha emission and spontaneous fission, 3801
- alpha activity of air samples, determination of random progeny in air, 5152
- (a,t) reaction on scandium—15 at 41 MeV, 10134
- bibliography, 7206
- 42-MeV (6.7-pJ), from even isotopes of cadmium scattering, absolute cross sections, 2248
- monoenergetic x-rays from alpha emitting isotopes, generation and practical use, 5163

Alpha rays, *see* Alpha particles.

Alter, Amos J., water supply in cold regions, 6431

Altman, Jack, capital flow matrix, 896

Alternating field, *see* Electric fields.

Alternators, *see* Electric generators.

Althouse, Edwin L., production of temperatures below 1°K by adiabatic demagnetization of CBP glass, 1258

Altimeters, planetary radar altimeters, analysis of terrain bias error, 10136

Altimetry, space geodesy altimetry study, 7234

Altitude:

accommodation of men to altitude, psychomotor effects of low doses of acetazolamide, 99

effects of—

prolonged reduced pressure on growth and nitrogen content of turnip, 3705

two antihistamine-containing compounds upon performance at 3 altitudes, 211

elevations and distances in United States, 7049

glucose tolerance in dogs exposed to altitude and drug administration—amphetamines, 95

demerol, 96

diphenhydramine, 94

helicopter height-velocity diagram effects, investigation, 1050

high, life support systems in, USSR study, 15966

Altitude chambers, unique altitude chamber for infectious disease research under aerospace profiles, 3702

Alton Jones Farm, make part of Eisenhower National Historic Site, reports, 15264, 15366

Altug, Mete V., relief, 4024

Alumina:

alkalized-alumina attritioning and SO₂ sorption rates, 11390

copper-alumina alloys, dispersion-strengthening, 11382

methods for producing from clay, evaluation of 2 lime slater processes, 16099

preparing alkali alumina, 14357

Aluminum:

adhesion of gold to copper and copper aluminum alloys, LEED study, 13126

alloys—

comparison of fracture toughness test procedures, 8763

exposed up to 25,000 hours at 200° to 400° F. (370° to 480°K.), tensile properties and creep strength, 4736

7075-T6 and 2024-T3 aluminum alloy specimens, effect of stress ratio on fatigue-crack growth, 14635

structural, fracture toughness characterization procedures and interpretations to fracture-safe design, 11568

tubing, Be-38 Al, thin-wall, mechanical properties and column behavior, 8629

aluminide coatings for nitridation-oxidation protection of chromium alloys, exploratory study, 11448

aluminized composite solid propellant, effects of steady-state acceleration on combustion characteristics of, 2233

Aluminum—Continued

chemistry of aluminum in natural water (series), 8283

dawsonite and nahcolite in Green River formation oil shales, determination, 13028

electrode in molten salt electrolytes, electrochemical behavior, 17247

electrowinning aluminum from aluminum chloride, operation of 2-compartment cell, 4636

extraction of aluminum and fluorine from leached potlining residues, 10665

friction, deformation and wear, effect of orientation and presence of surface active materials, 4724

gains in extraction urged, USSR study, 11316

identification marking, Federal standard, 9829

imports and exports (monthly), 2588

industry—

employment outlook, 4569

mineral industry survey, monthly, 2589

ingot and mill products, current industrial reports, 2732, 3837

low-cycle crack growth in 2014-T6 aluminum sheet at -320°F (77K), factors influencing, 7298

plates, ballistic limit determined by exploding foil gun technique, 1047

products, preparation for shipment and storage, military standards, 10953, 16928

projective shape effects on hypervelocity impact craters, 2252

size and loading effect on burning rate of solid propellants under acceleration, experimental investigation, 16163

solubility, in presence of hydroxide, fluoride, and sulfate, 8383

supplementary data, 6487

thin aluminum targets, experimental investigation of momentum transfer associated with impact, 17239

see also names of articles manufactured for aluminum.

Aluminum chloride:

electrowinning aluminum from aluminum chloride, operation of 2-compartment cell, 4636

preparation of anhydrous aluminum chloride, 10052

Aluminum foil, converted, current industrial reports, 3836

Aluminum oxide, *see* Alumina.

Alunday, Ernesto, relief, 6740, 9281, 12108

Alvin (deep research vehicle):

used to investigate variability of bottom reflected signals, 13213

AM series, 209-211, 1610, 5193-94, 6481, 7723-27, 9088-90, 10578-584, 11971, 16635-636

Amalgams:

amalgam electrodes use to measure activity coefficients of metal salts in multi-component salt solutions, 2011

silver, restorative material, laboratory testing with stannous fluoride, 10529

Amantadine, anti-influenza drug, amantadine, evaluation of prophylactic activity, USSR study, 15950

Amargosa Desert, Nye County, Nev., Geological Survey tracer study, exploratory drilling, tracer well construction and preliminary findings, 14360

Ambassadors:

nomination of—

Annenberg, Walter H., to Great Britain, hearing, 5443

Beam, Jacob D., to Union of Soviet Socialist Republics, hearing, 5443

Eisenhower, John S. D., to Belgium, hearing, 5443

Humes, John P., to Austria, hearing, 15454

- Ambassadors—Continued
nomination of—continued
Keating, Kenneth B., to India, Peter-
son, Val, to Finland, Handley, Wil-
ham J., to Turkey, and Puhon, Al-
fred, to Hungary, hearing, 8065
Martin, Graham A., to Italy, hearing,
15454
Toon, Malcolm, to Czechoslovakia, hear-
ing, 9460
- Ambulance trucks, economics of highway
emergency ambulance services, 10187
- Ambulances:
ambulance-rescue squads, emergency han-
dling of radiation accident cases, 11966
ambulance services operation of emergency
vehicles, compendium of State statutes
on regulation, 13341
- Ambulatory service data system, 14778
- AMC, *see* Army Material Command.
- America:
better water, quality standards, 9840
building the American city, report, 5326
health care of our people, hearings, 5447
6-cent beautification of America commem-
orative postage stamps (poster), 2391
see also United States.
- America in space, the first decade (series),
8604, 10093-94, 11420-422
- American Association of State Highway
Officials, Electronics Committee, proceed-
ings, national conference, 1361, 14818
- American Battle Monuments Commission:
appropriations, 1970—
hearings, 10767, 16878
report, 12192
- American Chemical Society, men and mole-
cules broadcast, politics of pollution, tran-
script of radio presentation, 1344
- American College of Neuropsychopharmacol-
ogy, proceedings of 6th annual meeting,
6197
- American education (periodical), 2590
- American Expeditionary Forces of 1917-69,
legislative recommendations 1969, hear-
ings, 6731
- American Federation of Labor and Con-
gress of Industrial Organization, interna-
tional role, hearing, 15451
- American Fisheries Society:
100th anniversary of founding, commem-
orative medals—
law, 9239
reports, 6766, 7928
- American Historical Association:
annual report—
departmental edition, 9017
document edition, 9253
report, 1961—
departmental edition, 15028
document edition, 15217
- American history, *see* History—Military his-
tory—Naval history.
- American importers and shipping act, 1916
(remarks), 5611
- American Indians, *see* Indians.
- American Institute for Free Labor Devel-
opment, programs and operations in Latin
America, hearing, 15451
- American Journal of Nursing, relief, 6604
- American Legion:
and American Legion Auxiliary in civil
defense, 10617
convention, 1968, proceedings, 12135
legislative recommendations 1969 hear-
ings, 6731
6-cent commemorative postage stamp
(poster), 4853
- American Meteorological Society, meteorol-
ogical and geostrophysical abstracts,
3203
- American Motion Picture Diamond Jubilee
Year, *see* Diamond Jubilee Year of Ameri-
can Motion Picture.
- American nationals, U.S. citizen and non-
U.S. citizen departures, statistical sum-
mary and analysis, 13514
- American Nuclear Society, special sessions
on gamma-ray production and transport
and on civil defense shielding, proceed-
ings, 15074
- American policy, *see* International relations.
- American practical navigator, tables, 16297
- American Public Health Association, APHA—
PHS recommended housing maintenance
and occupancy ordinance, 11604
- American Public Works Association, water
pollution aspects of urban runoff, 9838
- American Republics:
foreign relations of U.S., diplomatic
papers—
departmental edition, 13474
document edition, 12134
Inter-American series, 2488, 7487, 10414
- American Revolution Bicentennial Commis-
sion:
appropriations, 1970—
hearings, 7946
reports, 12171, 15398
joint resolution establishing, amend to
extend 1st reporting date and author-
ization for appropriations, reports,
12266, 16769
- American River division, *see* Central Valley
project.
- American Samoa:
annual report, 8409
industries, minimum wage rates, 10447
nautical chart catalog, 7789
- American Society for Testing and Materials,
ASTM Jet A fuel, fouling characteristics
of, when heated to 700° F in a simulated
heat exchanger tube, 2257
- American Society of Planning Officials, urban
planner in health planning, 4902
- American standard code information inter-
change, evolving conventions and stand-
ards for character information coded in
6, 7 and 8 bits, 10179
- American student activism in comparative
perspective, 5888
- American University Students for a Demo-
cratic Society, hearings, 15322
- American Veterans Committee, legislative
recommendations 1969, hearings, 6731
- American Veterans of World War II: Amvets
and civil defense, 10619
legislative recommendations, 1969, hear-
ings, 6731
- Americans:
designs for action for older Americans,
10457
volunteer, monograph, 7164
young Americans, you can help fight plant
pests, 10495
- America's best hope, 16406
- America's department of natural resources,
the Department of Interior, 15848
- America's lifelines, Federal aid for highways,
10340
- America's role in the world, 11706
- AM-FM broadcast financial data, 6941
- Amerson, A. Binion, jr., ornithology of Mar-
shall and Gilbert Islands, 10361
- AMG, *see* Acreage marketing guides.
- Amides:
polyamide honeycomb core, compressive
and shear properties, 12696
synthesis of novel polyimide precursor,
8643,
- Amidon, Elliott L., length and area equiva-
lents for interpreting wildland resource
maps, 17035
- Amines, miscellaneous alcohols and amines,
technical grade, military standard, 15528

- Amino acids, S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant in rodents and primates, 3716
- Amiraault, John V., relief, 6635
- Amistad National Recreation Area, master plan, 8728
- Ammonites:
 - early Pennsylvanian ammonoids from southern Nevada, 7055
 - late Cretaceous, Scaphites leaf Reeside and Scaphites hippocrepis (DeKay) in western Interior of United States, 5723
- Ammonium nitrate:
 - encourages decomposition of ponderosa pine needles under laboratory conditions, 9855
 - reactivity of ammonium nitrate-fuel oil with pyrite-bearing ores, 975
- Ammonium perchlorate:
 - base fuel combustion, effect of ionizing radiation, USSR study, 15899
 - combustion, USSR studies, 5852
- Ammonoidea, *see* Ammonites.
- Ammunition:
 - commerce in ammunition internal revenue regulations, 4421
 - data cards, military standard, notice, 5506
 - DoD contractors' safety manual, 1784
 - Federal item identification guides for supply cataloging, supplements, 2850
 - research and development at Picatinny Arsenal, Dover, N.J., improve management, GAO report, 713
 - safety standards, DoD manual, 12354
- Amortization, *see* Mortgages.
- Amos, William E., HRD employability model, 4196
- Amphetamines:
 - glucose tolerance in dogs exposed to altitude and drug, administration, 95
 - let's talk about goofballs and pep pills, 7377
 - up and down drugs, amphetamines and barbiturates, 7430
- Amphibia:
 - Desert National Wildlife Range, list, 2472
 - Moosehorn National Wildlife Refuge, list, 6253
- Amphibians:
 - and reptiles of Barro Colorado Island, Panama, with comments on faunal change and sampling, checklist, 13422
 - endangered species, prevent importation and interstate shipment of—
 - hearings, 7967, 12299
 - report, 12190
- Amphibious operations:
 - amphibious reconnaissance, Fleet Marine Force manual, 16041
 - engineer amphibious units, Army field manual change, 9034
- Amphipods:
 - gammaridean Amphipoda of rocky intertidal of California, Monterey Bay to La Jolla, 8706
 - marine gammaridean Amphipoda, families and genera, 8708
- Amplifiers:
 - application of pressurized liquid nitrogen inside parametric-amplifier structures for input-noise-temperature improvement, 17250
 - low-noise, error analysis of input-noise-temperature measurements, 4727
 - microwave amplifier arrays, energy control, 1567
 - modular servoamplifier for fast-response electrohydraulic control systems, design and analysis, 1115
 - transistor series amplifier, 14762
 - waveguide tunnel-diode, design considerations, 6143
- Amplitude scintillation at Randle Cliff derived from ATS-1 transmissions, 10261
- Amusements, entertainment expenses, rules for deducting from income tax, 2020
- AMVETS, *see* American Veterans of World War II.
- Anable, W. E., mass spectrometry residual gas analysis during vacuum melting, 14556
- Anadromous fish, *see* Fish and fisheries.
- Anaerobes, laboratory methods in anaerobic bacteriology, NCDC laboratory, manual, 1339
- Anaheim, Calif., area wage survey, 16017
- Anaho Island National Wildlife Refuge general information, 2477
- Analog computers, *see* Electronic computers.
- Analysis, *see* Dimensional analysis—Error analysis—also names of substances, or subjects analyzed.
- Analysis (mathematics), *see* Mathematics.
- Analysis and design of space vehicle flight control systems, 10068
- Analytic function models of noise and modulation, 13140
- Analytical Coordination Chemistry Section, activities, July 1968–June 1969, summary, 16232
- Analytical investigation of incompressible turbulent swirling flow in pipes, 1006
- Analytical Mass Spectrometry Section, summary of activities, 1179
- Analytical Reference Service, studies, 10295, 14779
- Anatomy:
 - counting characteristics of medium-level whole-body counter, 15076
 - developmental, status of research, 1968, report, 13176
 - human brain, device for cooling USSR study, 12882
 - late somatic effects of ionizing radiation, 3812
- Anchor worm, parasites of freshwater fishes, miscellaneous, 1410
- Anchorage, Alaska, International Airport, climatological summaries, 16488
- Anchor, rock-bolt anchor creep load loss, 4641
- Ancrum, Timothy L., relief 16761
- And answers came from his U.S. training, 56
- Anders, William A., nomination, hearing, 10882
- Andersen, Richard H., advanced high temperature combustor research for small gas turbine engines, final report, 3783
- Anderson, B. A.:
 - surface water records to Sept. 30, 1967. Index—
 - North Atlantic slope basin, 736
 - St. Lawrence River basin, 737
- Anderson, Bernhard H.:
 - characteristic design study of mixed-compression 2 dimensional inlets with low angle cowls for Mach number range 2.70 to 180, 13111
 - characteristics study of bicone mixed-compression inlet for Mach 1.80 to 2.50, 7268
 - design of supersonic inlets by computer program incorporating method of characteristics, 2258
- Anderson, Floyd G., dust control in mining, tunneling, and quarrying in United States, 5934
- Anderson, G. R., conversion of standard refrigerator to biological incubator, 3
- Anderson, Gordon B., calibration procedures for load cells and proving rings as weighing devices, studies, 4766
- Anderson, Henry W., Jr., water supplies for Coulee Dam National Recreation Area, 9931
- Anderson, John L., nuclear thermionic space power concept using rod control and heat pipes, 10152
- Anderson, L. O., low cost wood homes for rural America, construction manual, 8964

- Anderson, Maynard E., adapting flow-diversion valve and homogenizer to permit automated cleaning-in-place of milk processing lines, 3622
- Anderson, Richard L., MAC flyer, 3093
- Anderson, Robert S.:
Army Medical Specialist Corps, 183
internal medicine in World War II, infectious diseases and general medicine, 6463
medical supply in World War II, 184
- Anderson, Wallace L., making land produce useful wildlife, 7585
- Anderson, Walter C., pine sawtimber price behavior in South Carolina, 11190
- Anderson, Willard W., on lateral cable oscillations of cable-connected space stations, 7279
- Andersonville National Historic Site, master plan, 8727
- Anderton, David A., man in space, 10094
- Andolesk, Ludwig J., nomination, hearing, 8088
- Andrew Johnson House, historical data, 10204
- Andrews, Archie M.:
addresses—
Oct. 15, 1968, 821
May 22, 1969, 9986
- Andrews, Edith W., scientific and technical personnel in industry, 5897
- Anemia:
equine infectious anemia, progress report, 10461
—and history in United States, 3624
- Anemometers:
high-response triaxial strain-gage, 7647
ship, heights above mean water level, 13244
- Anerartiinae, *see* Moths.
- Anesthesia, *see* Anesthetics.
- Anesthetics:
efficacy of—
methylpentynol as anesthetic on 4 salmonids, 10394
quinaldine as anesthetic for 7 species of fish, 10392
halothane anesthesia and postoperative hepatic necrosis, study of possible association, 7344
inhalation, theories of mechanism of action, 13627
quinaldine as anesthetic for brook trout, lake trout, and Atlantic salmon, 10392
- Angeles National Forest, general information, 8273
- Angina pectoris, *see* Heart diseases.
- Angle of attack:
angle of attack and bluntness, effects on laminar heating-rate distributions of 15° cone, 16190
effect of unit Reynolds number, nose bluntness, angle of attack, and roughness on transition on 5° half-angle cone at Mach 8, 2259
effects, on shock-layer properties of 15° cone at Mach number of 10.6, 1124
experimental pressure distributions on 120° cone at Mach numbers from 2.96 to 4.63 and angles of attack from 0° to 20°, 7257
heat-transfer and pressure distribution on spherically blunted 25° heat-angle cone at Mach 8 and angles of attack up to 90°, 1056
stagnation point velocity gradients and heat-transfer coefficients for family of blunt bodies, 11444
wind tunnel tests of thin airfoil oscillating near stall, summary and evaluation, 6459
zero angle of attack, Newtonian zero aerodynamics for circular cones modified to produce lift, 10124
- Angles:
cone angle, base flare angle, and corner radius effect on Mach 3.0 aerodynamic characteristics of large-angle cones, 7254
parametric, of trajectory-determined field line intersects predicting location of artificial auroras, 13074
- Angola, *see* Portuguese West Africa.
- Anguilla, *see* Leeward Islands.
- Angular distribution, of neutrons and gamma rays, Operation Neutr, 16619
- Angular momentum, graphic method for determining absolute attitude of sounding rocket vehicles, 10118
- Angular positions of X-ray emission lines of elements of common analyzing crystals, 4621
- Anhydrous aluminum chloride, *see* Aluminum chloride.
- Animal drawn vehicles, *see* Vehicles.
- Animal industry, *see* Livestock.
- Animal products:
code of Federal regulations, 11116
trade and tariff information, summaries, 2511, 7540, 8912, 10430-431, 11739
- Animals:
code of Federal regulations, 11116
damage—
control, 14248
to conifers on national forests in Pacific Northwest region, 11192
invertebrate and lower vertebrate, neoplasms and related disorders, 16258
laboratory animal act, how it protects your dog and cat, 11882
laboratory diagnosis of tuberculosis, recommended standard procedures, 13540
live, Federal item identification guides for supply cataloging, supplements, 2849
poisoning and intoxication, USSR studies, 2053
radiation—resistant, selection, 10526
small, biochemical and metabolic effects of 6-month exposure to helium-oxygen atmosphere, 17197
see also Aquatic animals—Diseases of animals—Fur bearing animals—Game and game birds—Wildlife
- Anisimov, A. I., superhigh-frequency generation of strongly ionized argon plasma, 16606
- Anisotropy:
Helsenberg ferromagnet, random phase approximation, 13091
mechanical, and molecular orientation, in polyethylene, polypropylene, and poly (ethylene terephthalate) films, 14628
rock, near-surface horizontal, 4645
transformations of elastic constants for anisotropic media by successive simple rotations, 7214
- Annapolis, Md., motor carrier accident, 13037
- Annealing:
notch ductility properties of SM-1A reactor pressure vessel following in-place annealing operation, 1260
of 22-, 40-, and 158-MeV proton damage in n- and p-type silicon, 8622
pressure-annealed, pyrolytic graphite, magnetothermal oscillations, 17236
- Annelids:
genus *Pterodrilus*, annelida, Branchiobdellida, descriptions, etc., 1210
Moore on Hirudinea with emphasis on his type-specimens, 1207
- Annenberg, Walter H., nomination, hearing, 5443
- Annette Island, Alaska airport, Federal aviation regulations, 16981
- Annie B. (fishing vessel):
coastwise privileges, authorize, hearings, 1706

INDEX 1969

- Annosus root rot, *see* Pomes annosus.
- Annual historical summary (series), 10933-936-942, 10959
- Annuitants, *see* Civil service.
- Annuities:
- District of Columbia—
 - judges retirement act of 1964, amend survivor annuity provisions, report, 14010
 - retirement act of 1964, amend survivor annuity provisions, report, 16802
 - law and regulations relating to treatment for income tax purposes, 11293
 - railroad retirement act, supplemental, continue, amend act, hearing, 12231
 - see also* Civil service pensions—Pensions.
- Annular lithium-drifted germanium detector for studying nuclear reaction gamma-rays, 1001
- Anodes:
- anodic oxidation of hydrogen on iron and platinum in sodium hydroxide solution, 6137
 - improved inert-cathode/magnesium-anode sea-water battery, characteristics, 1259
- Anokhin, P. K., discusses conditioned reflexes, USSR study, 5862
- Anomerianaki, Pagona, relief, 6638
- Answers for doctors—
- social security disability program, 17384
 - what social security disability program means to you and your patients, 1399
- Antarctic regions:
- Antarctic bibliography, 8565
 - Antarctic Journal of United States, 2593
 - Antarctic traverse series, 6526
 - Antarctic treaty, furtherance of principles and objectives, recommendations adopted at 4th consultative meeting, 11716
 - electrolytic conductivity of snow and glacier ice, 1574
 - experimental snow runway pavement, 3749
 - gazetteer, official name decisions, 17069
 - glacier ice, bubbles and bubble pressures, 1575
 - introduction, 17316
 - magnetic results, South Pole-Queen Maud Land Traverse 1 1964-65, 6526
 - nautical charts and publications, catalog, 10227
 - oceanographic cruise summary, Ross Sea, 13241
 - Operation Deep Freeze, reports, 14756, 14759-760
 - oral acidogenic bacteria in Antarctic, 12998
 - seismological bulletin (periodical), 2594
 - Soviet medical research, 7151
 - Soviet polar studies, 5871, 7141
- Antarctica, *see* Antarctic regions.
- Antelopes, pronghorn, habitat management, 16431
- Antennas:
- antenna engineering, development, USSR study, 12953
 - Apollo astronaut backpack antenna, performance characteristics, 8615
 - community antenna relay applications accepted for filing, 2826
 - effective length and internal impedance of elements of receiving array, 10262
 - Federal item identification guide, 12355
 - flight vehicle antennas and electrical durability of antennas, USSR study, 7126
 - induction loop antennas for geomagnetic field variation measurements, 14164
 - linear array, scattered-field response to step-function illumination, 10260
 - loop, mutual impedance over finitely conducting ground, 15674
 - monopulse arrays with discrete elements, analysis and synthesis, 4216
 - near earth and buried, bibliography, USSR study, 2059
- Antennas—Continued
- NRL Microwave Space Research Facility 60-ft. X-band antenna, design and development, 17314
 - parabolic, with cross-polarized field, USSR study, 5834
 - power gains, over lossy plane ground, 9723
 - radar, radomes and feeds, USSR studies, 5860
 - right-angle cruciform slot, possibility of measuring radiation coefficients with allowance for their reciprocal effect, USSR study, 15919
 - satellite turnstile, study, 17312
 - structures, construction, lighting, and marking, FCC rules and regulations, 2828
 - terrain effects on antenna radiation patterns, analysis of scattered fields, 11026
- Anthraxite, *see* Coal.
- Anthropologists:
- employment outlook, 4552
 - supply and demand in educational institutions and other settings, 14808
- Anthropology:
- bibliography, 1520
 - John Wesley Powell and anthropology of canyon country, 11248
 - Smithsonian contributions, 1382, 2315
- Anti-Semitism, *see* Jews.
- Antiballistic missiles, *see* Missiles.
- Antibiotics:
- drug combinations, antibiotics, competitive problems in drug industry, hearings, 10920
 - streptozotocin (NSC-85998), general information, 14684
- Antibodies, *see* Antigens and antibodies.
- Anticorrosives, *see* Corrosion and anticorrosives.
- Antidepressive agents:
- antidepressant drugs—
 - effectiveness, psychopharmacology bulletin, 14801
 - studies, 1955-1966, bibliography and selected abstracts, 8797
- Antidumping duties, *see* Tariff.
- Anti-friction bearings, *see* Bearings (machinery).
- Antigens and antibodies:
- tissue typing antisera, catalog, 13169
 - TRIC Agent urethritis, serological fluorescent antibody and associated findings, report, 14517
- Antigua, *see* Leeward Islands.
- Antihistimic drugs, antihistamine-containing compounds, effects of 2 upon performance at 3 altitudes, 211
- Antilles:
- contributions to hydrology of Latin America and Antilles (series), 11251
 - Lesser, caddis flies, trichoptera, description, etc., 1208
- Antimetabolites, in treatment and prophylaxis of radiation sickness, USSR study, 5814
- Antimony:
- mineral industry survey, quarterly, 2593
 - minerals yearbook chapter, 16072
- Antimycin A:
- field trials of selective toxicant in channel catfish ponds, 10393
 - fish toxicant—
 - field trials, 10393
 - laboratory tests, 10393
 - use for selected thinning of sunfish populations in ponds, 10393
- Antipoverty program, *see* Poverty.
- Antiseptics, germicidal properties of iodine tablets, effect on soft drink mixes, 14510
- Antiserum, *see* Antigens and antibodies.
- Antitrust laws, *see* Monopolies—Trusts (industrial).
- Antiviral chemotherapeutic research conducted, 2073

- Anton Brunn (R/V)
deep-sea Cerviniidae (Copepoda Harpacticoida) from western Indian Ocean collected on cruise of, 17376
- Antonio, Franklin Jacinto, *see* Jacinto Antonio, Franklin
- Antônio dos Santos quadrangle, Brazil, geology and ore deposits, 5713
- Ants, in home and garden, how to control them, 6379
- Aoyagi, Kiyoshi, investigation of 0.3 scale jet-transport model having jet-augmented boundary control flap with direct-lift control capability, 11445
- Apache National Forest, status of lands conveyed to claimants, relief, 16837
- Apartment houses, fallout shelter design techniques, 3871
- APCL, *see* Atmospheric and Physics Chemistry Laboratory.
- Apertures:
admittance of parallel-plate, illuminating displaced dielectric-dielectric boundary, 6004
circular, in ground plane covered by homogeneous dielectric or plasma slab, input admittance and reflection coefficient, 1008
- APHA, *see* American Public Health Association.
- Aphasia, vocational rehabilitation problems of patient with aphasia, 7441
- Aphids, *see* Plant lice.
- Aplite, minerals yearbook chapter, 16075
- Apollo S, man around the moon, 4692
- Apollo manned lunar landing GOSS-mission profile, 5968
- Apollo project, *see* Project Apollo (man-in-space program).
- Apollo spacecraft, *see* Spacecraft.
- Apollo Telescope Mount Project, *see* Project Apollo (man-in-space program).
- Apostle Islands National Lakeshore:
establish—
hearing, 9469
report, 10872
- Appalachian region:
Alabama and Georgia, raw materials for lightweight aggregate, 5963
Appalachian research reports, 9018, 13650
central, potential development, preliminary analysis, 13650
development act of 1965, extend—
hearings, 9491, 10801, 10919
reports, 10751, 12162, 12259
fish and wildlife, effects of surface mining, report, 1427
funding Appalachian projects, development districts and research, guidelines, 7642
housing assistance, HUD handbook, 12810
land stabilization and conservation program, 6397
regional economic development legislation of 1969, hearings, 9491, 10919
rotary coring of oil-producing formations with mud or air, 7212
sapling growth and browse production increased by intensive cleaning, 9865
seed production in Southern Appalachian oak stands, 1925
southern, birds, list, 5665
status of secondary vocational education, 9018
systematic jointing in western part of anthracite region of eastern Pennsylvania, 4351
woods, evaluating for highway posts, 15765
zinc districts, mercury and other trace elements in sphalerite and wallrock ore deposits, 1957
- Appalachian Regional Commission:
alternate Federal cochairman, nomination of Orville H. Lerch, hearings, 12322
annual reports, 5336, 7640
- Appalachian Regional Commission—Continued
appropriations, 1970, hearings, 9332, 12285
Education Advisory Committee, interim report, 7641
extend, reports, 10751, 12162, 12259
Federal Cochairman, nomination of John B. Waters, jr., hearing, 8091
- Apparel, *see* Clothing.
- Appeals:
contract appeals, decisions, 2987
Indian appeals, decisions, 2988
land appeals, decisions, 2989
tax refunds, appeal rights and claims, 8424
Appel, Charles A., hydrogeologic data related to establishment of pumping station in Everglades National Park, Fla., 8349
- Apple trees, *see* Apples.
- Appleman, Herbert S., 2d annual survey report on Air Weather Service weather-modification program, FY 1969, 13618
- Appleman, Roy E., Milton Mine, Organ Pipe Cactus National Monument, Ariz., 16275
- Apples:
apples in appealing ways, 6381
blight, 8969
commercial, production by varieties, 1968, with comparisons, 2505
comparison of keeping quality of Joanthan and red delicious apples stored in field boxes or prepackaged in film bags, 8946
components, effects of microwave dehydration, 9
mechanical harvesting, relation of frequency and length of shaker stroke, 6355
produced in Colorado, Utah, New Mexico, Illinois, and Ohio, marketing order authority, extend, report, 16871
- Appliances, *see* Electric apparatus and appliances—Household appliances.
- Application of systems approach to training, case study, 13793
- Applied Technology, Institute for, *see* Institute for Applied Technology.
- Apportionments, State legislatures, 8943
- Apprentices:
apprentice training, sure way to a skilled craft, 15029
apprenticeship past and present, 15030
disadvantaged young men prepare for well-paying careers in maritime fleet, training program for cooks, bakers, butchers, 4195
employment opportunities, jobs for which apprenticeship training is available, 4605
Government Printing Office, increase number authorized, report, 8033
machinists, automatic screw-machines, national policy of apprenticeship, 16577
mechanical trades, examination announcement, 6523
training, sure way to skilled craft, 5880
veterans, apprenticeship or other on-job training benefits, pamphlet, 6341
- Apprenticeships, *see* Apprentices.
- Approach lights, *see* Lights and lighting.
- Approach, naval aviation safety review, 2598
- Approaches to drug insurance design, 8389
- Appropriations:
general Government matters—
1969, continue, law, 12116
1970, continue—
law, 12118
reports, 12156, 12253, 16800
legislative, 1970—
hearings, 13917, 15300, 15415
reports, 15271, 16862
requests, 1970, recommended reductions, 7852
statements, 90th Congress, 1st session, 4009
supplemental, 1968, pay increases, proposal, 358
supplemental, 1968-70, proposals, 3970

INDEX 1969

Appropriations—Continued

- supplemental, 1969—
 - hearings, 7947, 9446
 - law, 13846
 - proposal, 9381
 - reports, 7940, 9307, 9440, 12166
 - supplemental, 1969-70, proposal, 6581, 6588
 - see also Government offices—also subjects, or names of departments, etc., for which appropriations are made.
- Appropriations Committee, House:
 - briefing on Sentinel anti-ballistic missile system, 3983
 - hearing, 5364, 6703-4, 7945-47, 9329-33, 10765-768, 12203-204, 13916-918, 15299-301, 16809-812
 - reports, 6693, 7940, 9310-11, 10734, 12156, 12192, 12197, 15271, 15298, 16800
- Appropriations Committee, Senate:
 - hearings, 6775, 9446, 10885-886, 12285, 14015, 15415, 16878
 - reports, 8020, 9440, 10873, 12253-254, 15398, 16862
- Approximations, analytic, for application to spacecraft optical navigation on short data arcs, 1088
- Apricots, fresh, feasibility of shipping jumble packed in fiberboard boxes, 14997
- APTD, see Public assistance.
- Aptitude tests:
 - Air Force—
 - composites, development and standardization, for Armed Services vocational aptitude battery, 10504
 - officer selection and classification tests, development, 3677
 - air traffic trainee, measures involving Navy, Marine Corps, and FAA controllers, comparative study, 7723
 - airman classification test, 8993
 - armed services vocational aptitude battery, high school counselors manual, 14081
 - Army classification battery Army school samples used in estimating test validity, 6447
 - radio operator composite, revision and standardization, 10505
- Aqualung, scuba diving, USSR manual, 7160
- Aquatic animals, maneuverability, USSR study, 12911
- Aquatic life:
 - graph theory applied to aquatic organism communities, USSR study, 7132
 - resources, effects of pollution on, in South Platte River basin of Colo., 8261
- Aquatic plants, see Waterweed.
- Aqueous solutions:
 - foam fractionation, 2008
 - light scattering and ultrasonic investigations of relaxation in, 8416
 - saline systems, heats and entropies of transport of ions, 7089
 - stannous fluoride, clinical evaluation, when used as constituent of prophylactic paste, topical solution, and dentifrice in Naval personnel, report after 2 years, 13003
 - theoretical mean activity coefficients of strong electrolytes in aqueous solutions from 0 to 100 C, paper, 2285
 - water and aqueous solutions at high pressures and temperatures, properties, 806
- Aquifers:
 - artesian, in Gwandu formation, 12770
 - deep, underlying coastal Orange County, Calif., study, 15809
 - hydrology of aquifer systems (series), 8352
 - stream-aquifer systems, analog-digital models, 12754
- Arab countries, United States policy in Near East crisis, 14906
- Arabic language, basic course, 11710
- Araceae, revision of genus *Aglaonema* (Araceae), 13415

- Aragonite, see Calcium carbonates.
- Aral Sea, Aral asp *Aspius aspius iblioides*, biological data, USSR study, 15906
- Aranda, Diego A., relief, 13951
- Araus, Luis R., Castillo de San Marcos and Fort Matanzas, National Monuments, Fla., historical research management plan, 8717
- Arbitration:
 - international, convention on Recognition and Enforcement of Foreign Arbitral Awards, report, 1724
 - mediation—
 - drawing jurisdictional lines, 11354
 - path to campus peace? 5911
 - new center for dispute settlement, 5911
 - see also Industrial arbitration—Labor arbitration.
- Arbitration Board, Federal Employees, see Federal Employees Board of Arbitration.
- Arbuckle Recreation Area, general information, 1228
- Arc (electric), see Electric arc.
- Arc heating:
 - arc-heated drivers up to 10 feet long, exploding wire initiation and electrical operation of 40-kV system, 8623
 - convected balanced arc, experimental and theoretical analysis, 4681
 - high-power, pulsed, constricted arc heater, experiments, 5973
 - wind tunnel, free-stream electron concentration and correlation of Langmuir probe and microwave interferometer measurements, 17245
- Arc lamps, see Lamps.
- Arc melting, see Melting.
- Arc tunnels, see Wind tunnels.
- Arc welding, see Welders.
- Arcade, N.Y.:
 - flood plain information, 9668
 - floods, information, 12528
- Arcata, Calif., airport, simulation test of diamond runway centerline, 15692
- Archeology:
 - archeological research series, 16267
 - Arikara archeology, Bad River phase, 1381
 - bibliography of salvage archeology in United States, 2449
 - Bighorn Canyon, 8852
 - La Roche sites, 2450
 - programs and areas, National Park Service general information, 17287
 - publications in salvage archeology, 1381, 2449-50, 8852, 17372
- Arches, production opportunities in Tennessee Valley, 1474
- Architect of Capitol:
 - appropriations, 1970, legislative—
 - hearings, 13917, 15415
 - reports, 15271, 16862
 - payroll activities, GAO review, 721, 4011
 - report, semiannual, 5391, 13949
- Architects:
 - career in Air Force, as a civilian, 1529
 - design administration, GSA handbook, 6166
 - employment outlook, 4477
 - nuclear defense design, professional development courses, 13781
 - publications of interest to, list, 4298
 - radiation shielding for, fundamentals—
 - analysis, 267
 - application, 268
 - planning, 266
 - urban design-athon, 591
 - see also Landscape architects.
- Architecture:
 - Air Force structures, definitive designs, 10514
 - airport planning and airport layout plans, 1848
 - apartment buildings, fallout shelter design techniques, 3871
 - architectural and building construction technology, 2-year post high school curriculum, 16951

- Architecture—Continued
buildings of Puget sound area, influence of design on exposed wood, 4302
definitive designs for naval shore facilities, 1236, 16289-290
design administration, GSA handbook, 6166
emergency construction, architectural design, Army technical manual, 5124
Georgetown—
northeast, residential, Washington, D.C., 16273
waterfront, Washington, D.C., 2318
health research laboratory design, 1193
highway bridge plans—
concrete superstructures, 1362
timber bridges, 11648
New York City, survey, 16274
nuclear defense design for architects and engineers, professional and development courses, 13781
planning and designing functional facilities for industrial arts education, 584
Post Office Dept., Research and Engineering Bureau, career opportunities, endless challenge, 2393
weather and architecture, bibliography, 11022
Archives, Confederate States of America, archives of government guide, 1159
see also National Archives—Records
Arcidiacono, Peter J., steady flight differential equations of motion for flexible helicopter blade with chordwise mass unbalance, 7668
Arctic Coast, coast pilots, Alaska, Cape Spencer to Beaufort Sea, supplement, 5278
Arctic Health Research Center, publications, 1949-68, 11605
Arctic National Wildlife Range, general information, 8869
Arctic Ocean, lights and fog signals, list, 1246, 8752, 17302
Arctic regions:
Center for Polar Archives, general information, 11510
eastern Arctic ice—
long-range outlook, 2339
seasonal outlook, 8755
infrared scanning the Arctic pack ice, 10219
long-range polar objectives conference, proceedings, 11756
Soviet polar studies, 7141
Area development, see Redevelopment (city planning, etc.).
Area handbook:
Afghanistan, 6436
Cambodia, 168
Iraq, 9049
Lebanon, 15049
Mozambique, 7662
Philippines, 6437
Tanzania, 170
Thailand, 169
Uganda, 6438
Area trends in employment and unemployment (periodical), 2601, 14943
Area wage surveys, see Wages.
Arena, N. Mex., ground water, availability, 12758
Aresco, Sebastian J., analyses of tippie and delivered samples of coal collected, 5954
Argentiero, Peter D.:
on the shape preserving expansion and contraction of objects in E^3 , 13077
 X^2 statistic and goodness of fit test, 11500
Argentina:
atomic energy cooperation for civil uses, agreement, 14922-923
background notes, 11691
economic trends and their implications for United States, 2043, 11302
foreign trade regulations, 9207
labor law and practice, 8546
loan of vessels Heermann, Dortch and Stembell, extension, agreement, 6301
Argentina—Continued
mineral industry, minerals yearbook chapter, 2133
records of Department of State, microcopy, pamphlet to accompany, internal affairs, 1161
spotted tinamous and pale spotted tinamous, study, 13466
Argon:
argon-tungsten and argon-uranium—
induction heated plasmas, experimental investigation of spectral emission characteristics, 8593
plasmas, theoretical investigation of composition and line emission characteristics, 10073
elastic scattering of 21 MeV protons, 1138
superhigh-frequency generation of strongly ionized argon plasma, 16606
thermodynamic properties of argon from triple point to 300 K at pressures to 1000 atmospheres, 6045
Argyle, Fla., railroad accident, report, 11092
Arias, Alan:
feasibility of producing dispersion strengthened chromium by ball-milling in hydrogen halides, 1127
role of chemical reactions in mechanism of comminution of ductile metals into ultrafine powders by grinding, 1087
Arikara Indians, archeology, Bad River phase, 1381
Arithmetic, tagged arithmetic, 14619
Arizona:
Agricultural Stabilization and Conservation Service, annual report, 11809
congressional districts, 11808
census of business, 1967—
retail trade, 9100
selected services, 13756
wholesale trade, 15100
central, snow accumulation and melt in demonstration cuttings of ponderosa pine, 1919
climatological data, 2662
county business patterns, 16658
dealers in trout and pondfishes, list, 11682
deer and elk use of ponderosa pine forest before and after timber harvest, 14282
electric rate book, 1873, 14214
Federal outlays, report of Federal Government's impact by State and county, 9535, 9585
Federal-State partnership for economic growth, Four Corners Regional Commission, 9870
five-spined ips, 11164
herbage production differs with soil in pinyon-juniper type, 9851
Indian vital statistics, 8798
Little Leroux Spring on San Francisco Peaks, relation of precipitation to flow, 9849
Maricopa County, Sycamore Creek watershed, water resources, 5727
mineral and water resources, report, 10905
northern, species interactions of growth inhibitors in native plants, 1921
Papago Indian reservations, demographic and socio-cultural characteristics, 10298
ponderosa pine forests:
characteristics of floor, 9847
thinning, clearcutting, and reseeding affect deer and elk use, 5671
precipitation data, hourly, 2962
quitclaims to quiet title, 16837
southern, soil temperature variations on semidesert habitat, 9848
Superintendency of Indian Affairs, pamphlet to accompany microcopy, 1167
water resources data, 9908-9, 11250
water supply outlook and snow surveys, 3583
Watershed, snowpack accumulation, melt and runoff, observations, 5676

Arkadelphia, Ark., flood plain information, 9684
 Arkansas:
 Agricultural Stabilization and Conservation Service, annual report, 8954
 congressional districts, 11810
 census of business, 1967, retail trade, 13733
 climate, 12559
 climatological data, 2662
 dealers in trout and pondfishes, list, 11681
 electric rate book, 15721
 Federal outlays, report of Federal Government's impact by State and county, 9536, 9586
 Girty's invertebrate fossils from Fayetteville shale (Mississippian), revision, 15803
 heavy oil reservoirs, 17174
 mineral industry, minerals yearbook chapter, 946
 northwestern, Hale formation, early Reti-
 culoceras zone fauna, 1970
 postal map, 7401
 precipitation data, hourly, 2962
 southern Coastal Plain and Blackbelt
 areas, soil survey interpretations for
 woodlands, 16440
 streams, storage requirements for, 1976
 uranium reconnaissance, preliminary,
 13709
 water resources data, 9910
 Arkansas City, Kans., Walnut River floods,
 how to avoid damage, 9702
 Arkansas County, Ark., community profile,
 15537
 Arkansas River and Valley:
 filling and emptying system, Dardanelle
 Lock hydraulic model investigation,
 9717
 flood plain information, 9663-64
 geology of Arkansas Valley coal field (se-
 ries), 4362-63
 navigation conditions, hydraulic model in-
 vestigation—
 Fort Smith reach, 607
 lock and dam no. 7, 8186
 Ozark Lock and Dam, 1828
 Ozark Lock and Dam and lock and dam
 no. 9, engineers report—
 departmental edition, 4211
 document edition, 4008
 upper basin, potential water resource de-
 velopment, report, 10349
 water supply outlook and snow surveys,
 3584
 Webbers Falls Lock and Dam navigation
 project, hydraulic model investigation,
 15668
 ARL, see Air Resources Laboratories.
 Arlington, Tex.:
 Cottonwood Creek floods, how to avoid
 damage, 12530
 flood plain information, 12455, 12462
 Johnson Creek floods, how to avoid
 damage, 12533
 Arlington National Cemetery, general in-
 formation, 11928
 Armaments, see Munitions.
 Arneo Steel Corporation, Weld Mill, Am-
 bridge, Pa., butt weld pipe, effect of impor-
 tation on employment of workers, Tariff
 Commission report, 17415
 Armed Forces:
 appropriations, 1970, military procure-
 ment, authorization—
 hearings, 10887, 15302
 reports, 12258, 15295, 16772
 supplemental—
 hearings, 5367
 reports, 6690, 6697
 armed services procurement manual ASPM
 series, 5476

Armed Forces—Continued
 armed services vocational aptitude
 battery—
 development and standardization of Air
 Force composites, 10504
 high school counselors manual, 14081
 capsule facts for Armed Forces (series),
 109-131, 1556-63, 3719-29, 5092-97,
 5101, 7643, 9019-25, 10531, 15034
 college graduate and national security
 utilization of manpower, bibliography,
 1766
 courts-martial, manual, 8132, 15526
 customs highlights for Government per-
 sonnel, civilian and military, 16906
 decorations and awards (poster), 6427
 defense procurement circular, 2755
 defense supply, procurement regulation
 12333
 revision, 2757
 dependents of members—
 educational scholarships, loans, and fi-
 nancial aids, general information, 7661
 eligible for medical care, to include foster
 child, amend U.S. Code, hearings,
 7949
 Federal income tax information for per-
 sonnel, 1968 returns, 870
 handicapped dependents of members, bene-
 fits, 757
 housing, Navy design manual, changes,
 2326
 how new food products from industry are
 authorized for use by Armed Forces,
 14095
 insignia (poster), 10538
 judge advocates and law specialist offi-
 cers, procurement and retention, amend
 U.S. Code, hearing, 15305
 legislation affecting, 90th Cong., 2d sess.,
 hearings, title page, contents, and index,
 389
 life insurance—
 government programs—
 annual report, 14960
 proposals, hearing, 15336
 servicemen's group—
 annual report, 1484
 dismemberment coverage, amend U.S.
 Code, report, 15381
 double indemnity coverage, report,
 15380
 increase, report, 15377
 proposals, hearing, 15336
 mailing privileges, provide—
 additional free letter mail and air
 transportation mailing privileges,
 hearing, 6726
 better overseas service, amend U.S. Code,
 report, 7892
 major achievements, 1969 report forces
 in action, 6822
 medical and dental officers, active duty
 extension, continuation pay, report, 1728
 members—
 personal property traffic management
 regulation, 5108, 15035
 uniformed services, joint travel regula-
 tions, 1786
 military family housing and bachelor
 officer and enlisted quarters, policies,
 procedures, and practices for determin-
 ing requirements, Defense Dept., GAO
 report, 5691
 military man who wants to buy a house,
 Spanish edition, 5747
 national service life insurance act, pro-
 posals, hearing, 15336
 NATO status of forces treaty, criminal
 jurisdiction operations, report, 451
 need for improved accounting for civilian
 employees' leaves of absence in military
 depts., GAO review, 4341

Armed Forces—Continued
 news style guide, 11926
 officer performance, factorially derived information measures for differential prediction, 13665
 Paraguay, nutrition survey, 2428
 postal services Europe, on-site inspection, report, 6657
 postal systems, San Francisco critique, report, 15280
 procurement quality assurance, handbook, 12378
 fresh dairy products, supplement, 16935
 procurement regulations, 525, 2602
 manual for contract pricing, 5476
 protective compounds for personnel, 14104
 provisioning and other preprocurement screening manual, Defense Supply Agency manual, 16910
 qualifying test norms, and airman qualifying examination, relationship, 5069
 recipe service, 10532
 reemployment rights of Federal employees who perform duties in, 3884
 retired military personnel in Federal jobs, questions and answers, 13794
 right job, guide for returning servicemen, 6345
 school system for overseas dependents, European area, Defense Dept., GAO report, 14323
 servicemen's bearing war-time mortality costs under servicemen's group life insurance program, legislation needed to avoid, Veterans' Administration, GAO report, 11217
 status of U.S. forces in Turkey, agreement, 4973
 supplies and services provided by DSA, 5494
 U.S. Forces in Europe—
 and situation in Czechoslovakia, report, 470
 report, 468
 uniform services—
 health benefits program, 13651
 joint travel regulations, 3019
 savings deposit program, 11943
 USSR, Party leadership emphasized, 5847
 VA-Armed Forces Pulmonary Diseases Research Conference, transactions, 1487, 17434
 Armed Forces Day, 1969 report, forces for freedom, 6822
 Armed forces Industrial College, *see* Industrial College of Armed Forces.
 Armed Forces Information Service:
 DoD pamphlets, 109-132, 1556-64, 3719-31, 5092-5103, 7643, 9019-25, 10534-536, 11926, 13651, 15031, 16578
 posters, DOD-P series, 6427, 9026, 10538, 11927
 Armed Forces Institute; bulletins, 4147, 8143, 10960
 Armed services, *see* Armed Forces.
 Armed Services Committee, House:
 activities, 90th Congress, report, 391
 calendar, 3036
 committee prints, 391A, 1697, 3984, 3991, 5368, 10769-770, 13919
 hearings, 3985, 5365, 6357, 6705, 7948-49, 9334, 12205-8, 13920, 15302-307, 16813-815
 title page, contents, and index, 389
 investigations and studies, procurement, etc., by Defense Dept.,
 authorization, report, 5351
 expenses report, 6669
 organization meeting, 91st Congress, 5365
 reports, 390, 5357, 5366, 6690, 7887, 7929-30, 7932-33, 10722, 12194, 15245, 15295, 16794

Armed Services Committee, Senate:
 calendar, 3054
 committee prints, 457, 468, 1730-35, 6776
 hearings, 4069-72, 5426-29, 9447, 10887, 12286, 14016, 15416-417
 investigations and studies, authorization, report, 4049
 reports, 451, 1728, 6763, 8028, 8034, 8044, 9413, 12258, 12280, 15413, 16847
 Armed services papers, 390-391, 3985-86, 5365-67, 7948-49, 9334, 12205-207, 15302-307, 16813-815
 title page, contents, and index, 389
 Armel unit, *see* Missouri River Basin project.
 Armor:
 body armor in hot humid environment, studies in—
 heat acclimatized men, 16057
 unacclimatized men, 14512
 operations, Army field manual, 13654
 Armor-Cavalry, 11375
 Armored force, armor and cavalry units of Army and Army Reserve, Army lineage series, 11375
 Armored tanks, *see* Tanks (Combat vehicles).
 Arms (firearms), *see* Firearms.
 Arms control, *see* Disarmament.
 Arms Control and Disarmament Agency:
 annual report, 15032
 appropriations, 1970—
 hearings, 10767
 report, 12192
 Director, nomination of Gerard C. Smith, hearing, 5442
 research reports, 3734
 telephone directory, 6274, 16462
 Armstrong, Ernest S.:
 combined Newton-Raphson and gradient parameter correction technique for solution of optimal-control problems, 1147
 computational method for time-optimal space rendezvous, 4742
 Army:
 air traffic operations, field manual, 3752
 airfield-helipoint—
 operational and maintenance facilities, technical manual, change, 3779
 pavements, evaluation—
 reports, technical manual, 16600
 rigid and overlay pavement design, technical manual, 177, 13662
 Army digest (periodical), 2604
 Army information officer's guide, change, 9042
 Army-labor program for second careerists, 1818
 Army logistician (periodical), 15033
 artillery regiments, returns from, pamphlet to accompany microcopy, 2280
 aviation—
 digest, 3547
 facilities planning, technical manual, 3776
 techniques and procedures, field manual, 16585
 utilization, field manual, 16584
 civilian employment, living and working in Vietnam, 9050
 commissioned officers, career planning, 1580
 control over inventories in Europe, GAO report, 11204
 correspondence courses, announcement, 1578, 5113
 divisions—
 combat readiness, subcommittee report, 1730
 organization, etc., field manual, 3755
 1st Army in Europe, print as Senate document, report, 9423
 heritage, troop topics, 16591
 infantry—
 brigades, field manual, 7653
 regiments, returns from, pamphlet to accompany microcopy, 2275

Army—Continued
 Information and data systems, pamphlet, change, 7659
 Installations and major activities in continental U.S., list, 6435
 Intelligence, exciting and unusual career, 7652
 Internal review guide, pamphlet, 142
 Judge Advocate legal service, pamphlets, 3027
 Larger units, theater Army-corps, field manual, 3756
 Librarian, professional career, general information, 9029
 Line of duty and misconduct determinations, 141
 Lineage series, 11375
 M-16 rifle procurement additional, report, 457
 Medical supply system during World War II, 184
 Military personnel—
 dependents traveling to overseas areas, information, pamphlet, 171
 ordered to Japan, helpful hints, 16595
 policies, digest, pamphlet, 6439
 Southern European Task Force (Italy), helpful hints, 16596
 museums, directory, 7202
 newspapers, personalize for success, pamphlet, 16590
 pathfinder operations, field manual, 137
 Personnel—
 and their families, retirement services, handbook, 5121
 selection and classification tables of civilian-Army occupational relationships, 15050
 unit officer's guide, Army pamphlet, change, 5122
 Procurement—
 and production, manufacturing methods and technology, 5-year program, 173
 legal service, pamphlet, 7663, 16597
 cumulative Index-digest, table of materials digested, 172
 procedure, 6429, 7645
 publications, price list, 1326
 Rail transport operations, field manual, 6432
 Recruiting and career counseling journal, 2371
 Register, Jan. 1 1969—
 departmental edition, 13678-681
 document edition, 13851-854
 Research and development, newsmagazine, 2605
 Reserve Officers Training Corps, step into your future, new ROTC program, 15051
 Role in building of Alaska, 11949
 Special Services, you'll never be the same! brochure, 5132
 Systems, life cycle management model, 140
 Tank program, review—
 hearings, 13920
 report of subcommittee, 10769
 Tips for dependents, general information, 11942
 Training centers, staffing guide, 11937
 Transportation movements management, 13656
 Travel regulations, 3019
 Troop topics, 143, 1579, 11943, 16591
 United States Army, Alaska, pamphlet, 11949
 United States Army in South Vietnam, 143
 United States Army in World War II, 4618, 16071
 USSR, propagandists and agitators, handbook, 7135
 Your personal affairs handbook, pamphlet, 16594
see also Uniforms.

Army Audit Agency, bulletin, 3535
 Army Aviation Materiel Laboratories, technical reports, 180-182, 1583-91, 3782-85, 5129-31, 6450-61, 7668-71, 9053-59, 10553-555, 11950-957, 13669-677, 15055-58, 16602
 Army Corps, Women's, *see* Women's Army Corps.
 Army Department:
 ammunition, research and development at Picatinny Arsenal, Dover, N.J., improve management, GAO report, 713
 appropriations, 1970—
 military construction, hearings, 15301
 public works—
 hearings, 12204, 13918
 report, 15298
 Army regulations, 5107-8, 7646, 15034-35
 Assistant Secretary—
 financial management, nomination of Eugene M. Becker, hearing, 5427
 installations and logistics, nomination of J. Ronald Fox, hearing, 12286
 manpower and reserve affairs, nomination of William K. Brehm, hearing, 5427
 Bomb and hand grenade fuzes, reasonableness of prices questioned under three negotiated contracts, GAO report, 12748
 Chiefs and executives, organization chart, 2955
 Civilian personnel pamphlet, 134
 Comptroller, role, in programing, budgeting, and accounting and reporting (PBAR) system, 6433
 Cooperative education program, 7660
 Field manuals, 136-137, 3752-56, 5111, 6432, 7653, 9034-35, 10543-544, 11933-936, 13654-656, 15042-43, 16584-585
 Korea, improvements needed in supply management and stock fund activities, GAO report, 12745
 Land conveyance to Massachusetts, report, 390
 Natick Laboratories technical reports, 3757-62, 7655-57, 13657
 Officers' call, the challenge of leadership, pamphlet, 13659
 Pamphlets, 140-172, 1578-81, 3027, 3763-73, 5112-22, 6433-39, 7658-64, 9037-50, 10545-550, 11937-945, 13658-660, 15046-50, 16588-597
 Procurement, proposal evaluation and source selection, Army Materiel Command pamphlet, 16582
 Publications price list, 1326
 SAFEGUARD antiballistic missile program, rotation of key military personnel assigned to Army Department, GAO report, 15790
 Secretary, Nomination of—
 Reul, Thaddeus R., hearing, 5427
 Resor, Stanley R., hearing, 4072
 Suggestion award portion of incentive awards program, management, GAO report, 14320
 Technical information holdings and services, director, 9060
 Technical manuals, 174-179, 1582, 3776-81, 5123-27, 6441-45, 7665-67, 9051, 10551-552, 11947-948, 13661-663, 15052-53, 16598-601
 Transportation and travel, worldwide—
 cargo transportation costs guide, pamphlet, 9040
 travel costs guide, pamphlet, 11940
 Army Electronics Command, research and development technical reports, 1566-72, 3737-42, 16583
 Army Engineer Division, North Pacific, technical report, 5569

- Army Geodesy Intelligence and Mapping Research and Development Agency, news releases, 3281
- Army hospitals, *see* Military hospitals.
- Army Human Factors Research and Development Conference, 1968 proceedings, 5128
- Army Materiel Command:
- AMC pamphlets, 133, 1565, 3405, 3735-36, 5106, 6428, 7644, 9027-28, 10539, 13652, 16581-582
 - Army programs, line of balance, 133
 - contractors guide, 9033
 - coordinated recruitment program, annual progress report, 15054
 - directory, installations and activities, 9027
 - employment bulletin, 2793
 - manufacturing methods and technology, 5-year program, 173
 - publications and blank forms, index, 3735, 5106, 7644, 10539, 16581
 - regulations, AMCR series, 10540
 - reports, register of approved recurring reports, 6428, 13652
 - safety manual, 10540
- Army Materiel Command Firing Range, Underhill, Vt., adjust legislative jurisdiction report, 12280
- Army Medical Research and Development Command, medical research support, 6464
- Army Medical Research and Nutrition Laboratory:
- Fitzsimons General Hospital, report, 5133
 - reports and reprints, bibliography, 7673
- Army Medical Service, hospitals with approved residences, 6462
- Army Medical Specialist Corps, historical account, 183
- Army Mobility Equipment Research and Development Center, news releases, 3281
- Army National Guard, *see* National Guard.
- Army Nurse Corps, *see* Nurse Corps, Army.
- Army officers, *see* Army.
- Army Reserve:
- Army Reserve magazine, 2606
 - keep a good thing going, 16586
 - reemployment rights, briefing sessions and program, 9041, 13658
- Army Security Agency, hallmark (periodical), 2950
- Army Strategic Communications Command, technical manual, 5109
- Armyworms, fall, use of virgin female traps to detect males and to determine seasonal distribution, 15005
- Arnold, Robert D., Alaska natives and Federal hire, 12610
- ARO, *see* Aerospace Research Office.
- Aromanto, Tony, Atlantian, 2614
- Aromatic compounds, trade and tariff information, summaries, 6316
- ARPA, *see* Advanced Research Projects Agency.
- Arrant, Lourdes M., relief, 6632, 10837, 12095
- Array theorem, *see* Antennas.
- Arrhythmia, automatic detection and display of arrhythmias in long-term ECG tape recordings, 9011
- Arrington, James P., heat-transfer and pressure distributions due to sinusoidal distortions on flat plate at Mach 20 in helium, 1123
- Arrow Reservoir, special operating program for Canadian storage, Columbia River Basin, agreement, 7523
- Arroyo de los Chamisos:
- flood plain information, 4201
 - floods in Santa Fe, N. Mex., how to avoid damage, 4210
- Arroyo Hondo:
- flood plain information, 4201
 - floods in Santa Fe, N. Mex., how to avoid damage, 4210
- ARS, *see* Agricultural Research Service.
- Arts orientalis, arts of Islam and the East, 11198
- Arsenals, Rocky Mountain arsenal, seismic activity during 1968 pumping at disposal well, 5711
- Arsenic, colorimetric method for arsenic in coal, 974
- Arson:
- riots, looting, and burning, subversive influences, hearings, 425-426, 4005, 7977
 - print additional copies, reports, 10753, 12278
- Art:
- arts and the humanities, Office of Education support, 4189
 - Eskimo and northwest coast Indian, bibliography, 8411
 - graphic arts of Alaskan Eskimo, 14402
 - history, National Gallery of Art—1967, report and studies, 1183
 - 1968, report and studies, 14680
 - oriental, Islam and the East, 11198
 - USSR, Party control at regional level, 5843
 - works and reproductions, catalog of copyright entries, 4114-15, 14068, 16904
 - see also* Lithographs—Paintings
- Arthritis:
- arthritis and rheumatic diseases abstracts, 2607
 - diet & arthritis, 11610
- Anthropod borne diseases, reported encephalitis in horses and other equidae, 13555
- Arthropoda:
- and miscellaneous phyla, index-catalogue, 13544
 - arthropods of—
 - medical importance in Latin America, 7656-57
 - public health significance, pictorial keys, 14799 - ecology of terrestrial arthropods on Tokelau Atolls, 8851
- Articles of Confederation, text, 9378
- Artificial heart, implantation, USSR study, 12948
- Artificial islands, and fixed structures on outer Continental Shelf, rules and regulations, 3889
- Artificial kidneys:
- bibliography (periodical), 2608
 - research and development program, opportunities for participation, 13175
 - what it is, how it works, Spanish edition, 13340
- El artificial riñón, que es, como trabaja, 13340
- Artificial satellites, *see* Satellites.
- Artillery, *see* Gunnery.
- Artists, commercial, employment outlook, 4491
- Arts and crafts:
- airline and railroad employees, craft or class determination of NMB, 11547
 - apprentice training, sure way to skilled craft, 5880
 - Estonian arts festival, address by Uzbek CP official, 2087
 - native American arts (series), 2003, 14402
 - oriental, Islam and the East, 11198
 - orientation and craft skill training, Post Office Department, personnel handbooks, 2395, 11593
 - trades and crafts, journeyman and junior levels, examination announcement, 15135
- Arts and Humanities, National Foundation on, *see* National Foundation on the Arts and the Humanities.
- Arts, National Council on, *see* National Council on the Arts.
- Arts, National Endowment for the, *see* National Endowment for the Arts.

- Arundale, Joseph C., mineral industry of Missouri, 2153
- As the seed is sown, 12141, 12397
- Ashbestos:
- exposure to, workmen's compensation claims arising, parallel study, 206
 - minerals yearbook chapter, 14521
 - occurrence in Eagle C-4 quadrangle, Alaska, 4358
 - trade and tariff information, summaries, 13500
 - workers, employment outlook, 4535
- Ashbury, Francis, statue, removal, authorize, report, 16873
- ASCI1, *see* American standard code information interchange.
- Ascorbic acid, *see* Vitamins.
- ASCS, *see* Agricultural Stabilization and Conservation Service.
- Ash, William J., raising ducks, 11866
- Ash (tree):
- trends to fibril angle variation in white ash, 689
- Ash content, *see* Coal.
- Ash Slough, Chowhill River, channel capacity of reaches, in Madera County, Calif., 1963
- Ash trays, *see* Trays.
- Ashes, turbine blade wear by coal ash in working fluid at 1,200° F, 10056
- see also* Coal.
- Ashbrook, Richard L., survey of salt deposits in compressors of flight gas turbine engines, 5994
- Asher, William J., conceptual design study of demulsification of fuel emulsions by coalescence process, 11955
- Ashida, James H., basic data on economy of Nigeria, 313
- Ashizawa, Roy Y., mineral industry of Hawaii, 953
- Ashley, Burton E.:
- mineral industry of—
 - Central American areas, 16081
 - Islands of Caribbean, 5939
 - Mexico, 2151, 16086
- Ashley, Victor L., relief, 13899
- Ashley County, Ark., community profile, 15538
- Ashley National Forest, Flaming Gorge, recreational map and general information, 8277
- Asia:
- British, internal affairs, records of Department of State, pamphlet to accompany microcopy, 6032
 - characteristics of geographic distribution of shigellae, changes in etiological structure of dysentery in countries of, Asia, USSR study, 12926
 - east—
 - and southeast special study mission, report, 6658
 - East Asian and Pacific series, 1439-40, 10410, 13472, 16463-464
 - economic growth trends, 12856
 - social science research, special papers available, 17403
 - U.S. foreign aid, 14428
 - impact of new grain varieties, 12421
 - internal affairs, records of Department of State, pamphlet to accompany microcopy, 13154
 - maps of continent, including indexes, print as House document, report, 10752
 - mineral industry, minerals yearbook chapter, 2161
 - Near East and South Asia, economic growth trends, 12858
 - opinions of Asian and Pacific leaders on Vietnam war, 132
 - Pacific Coast, tidal current tables, 13798
 - Peace Corps and Fulbright program, diary of trip, 9458
- Asia—Continued
- records of Department of State, relating to political relations between United States and Asia 1920-29, and between Asia and other States, 1914-29, pamphlet to accompany microcopy, 11511
 - south—
 - and east, translations, 3515
 - and southeast, special study mission report, 9347
 - market profiles, 10648
 - mineral industry, minerals yearbook chapter, 17188
 - selected references, 1914
 - supplement, 11915
 - U.S. foreign aid, 1970 proposed program, 14429
 - southeast—
 - background information, 8061
 - Coast Guard activities, Congressional investigation of operations and installations in Thailand and South Vietnam, report, 410
 - mainland, environmental conditions relating to harmful insects, 13657
 - maps, including indexes, print as House document, report, 10752
 - paintings, Air Force lithograph series, 13621
 - returnees, job-associated problems encountered by airmen, 10511
 - savings available by using space on military aircraft to transport baggage between United States and Pacific and Southeast Asia, GAO report, short term radio propagation forecasts, 6915
 - transportation and traffic management activities by Defense Department, overall observations, GAO report, 8334
 - vessels activated for use in, need to improve procurement procedures for outfitting, Maritime Administration, GAO report, 716
 - southeastern, selected references—
 - excluding Vietnam, 11908
 - Vietnam, 11909
 - United States role in future (address), 16464
 - United States trade, Communist areas, 9208
 - west—
 - agricultural policies, 1803
 - west—
 - agricultural situation—
 - 1968 review and 1969 outlook, 6860
 - 1969 midyear review, 16948
- Asian Development Bank:
- act, releases, 2610
 - appropriations, 1970, hearings, 15299
 - purpose and accomplishments (statement), 8921-22
- Asparagus, frozen, U.S. standards for grades, 8109
- Aspect ratio, *see* Wings (aircraft).
- Aspen:
- grove use by deer, elk, and cattle in southwestern coniferous forests, 14281
 - hypoxylon canker, 11161
 - Populus species with special emphasis on P. tremuloides literature survey, 675
- Aspen Emphysema Conference:
- current research in chronic—
 - obstructive lung disease, 1967 proceedings, 6174
 - respiratory diseases, 1968 proceedings, 6175
- Aspen tortrix, *see* Moths.
- Asphalt:
- and wax emulsions, effect on moisture changes in slash, 17051
 - membranes, for water seepage control, 14826
 - see also* Roofing.

Asplund felt, *see* Felt.
 ASPM series, 5476
 Assateague Island National Seashore, background study and historical base map, 13187
 Assaying:
 maximum rate kinetic analysis applied to enzyme assay data, 10046
 simple, quantitative method for assaying soil for inhibitory fungi, 17030
 Assemblers, factory operatives, employment outlook, 4506
 Assessing the economic scene, 15994
 Assessments, *see* Taxation.
 Assets and liabilities, *see* Banks and banking—Federal reserve member banks.
 Assistance, *see* Public assistance.
 Associate training programs in medical and biological sciences at National Institutes of Health, 4775
 Associations, *see* Educational associations—also names of associations—also subject with which associations has to do
 Asteroids, Asteroid/Jupiter missions, space flight investigations, opportunities for participation, 1150
 Astill, Clifford J., prediction of rotor instability at high forward speeds, 7669
 Astin, Allen V., talk, April 8, 1969, 8670
 ASTM, *see* American Society for Testing and Materials.
 Astrogeology, contributions to astrogeology (series), 12780
 Astronautics:
 chronology on science, technology, and policy, 10100
 life support systems in high-altitude and space flights, USSR study, 15966
 long-duration earth-orbital, experiments on visual acuity and visibility of markings on ground, 2183
 manned space flight—
 1975-85, winter study on uses, NASA Science and Technology Advisory Committee for Manned Space Flight conference, proceedings, 17214
 Project Apollo, NASA facts, 13054
 water-salt metabolism during space-flight, 854
 minimum thrust for correcting Keplerian orbits with application to interplanetary guidance, 2245
 physiological measurement techniques for applicability to space flight conditions, review, 4686
 planetary probe guidance accuracy influence factors for conjunction-class missions, 4701
 section on history of aviation and cosmonautics, Institute for History of Natural Science and Technology, 9th scientific conference of graduate students and junior scientific associates, transactions, 11505
 spaceflight—
 factors, effect on central nervous system, USSR study, 12927
 handbooks, 13058
 hardware microbiological examination, NASA standard procedures, 1045
 investigations, opportunities for participation, 1150-53, 3327, 7308-12, 8659-60, 11507, 14653, 16212
 space vehicle flight control systems, analysis and design, 10068
 submillimeter waves in space, problems and programs on use of, 1040
 treatment of decompression sickness in simulated space flight, 85
see also Bioastronautics.

Astronauts:
 American, provide gold medals for, report, 15357
 Apollo—
 backpack antenna, performance characteristics, 8615
 lunar surface transmission loss, 1129
 application of human transfer functions to system analysis, 17229
 borderline medical problems and fitness for flying, 86
 capabilities to maintain life support systems and cabin habitability in weightless conditions, study, 16130
 Congressional Space Medal of Honor, award to—
 hearing, 15328
 law, 16742
 discrimination of increases in brightness of flashing beacon, 1029
 extravehicular work capabilities in weightless conditions, study, 10080
 rescue and return—
 agreement, analysis and background, 1729
 astronauts and objects launched into space, agreement, 4978
 simulation of Gemini extravehicular activity with flight results, correlation study, 5970
 see also Pilots and pilotage.
 Astronomers, employment outlook, 4537
 Astronomy:
 airborne astronomy missions, during 1969, space flight investigations, opportunities for participations, 1152
 astronomic latitude and their computing programs, investigations in determining, 13226
 astronomical papers translated from the Russian, 14857-858
 astronomical phenomena, 13210
 astronomy and space physics, 11420
 publications, price list, 8790
 Soviet blue research (periodical), 3446
 submillimeter waves in space, problems and programs on use of, 1040
 see also Radio astronomy—Stars.
 Astrophysics:
 American Meteorological Society abstracts, 3203
 astrophysical conditions, induced Compton effect in plasma and electromagnetic waves, 15063
 high-energy, lectures, 11430
 plasma radiation process, 15069
 Asymptotic solutions, *see* Mathematics.
 ATC, *see* Air traffic.
 Atchafalaya River and Valley, Gulf outlet, navigation maps, 2180
 Atchison, Topeka and Santa Fe Ry., accident, report, 11080
 Athletic goods, *see* Sporting goods.
 Atkinson, L. Jay, changes in agricultural production and technology in Colombia, 10972
 Atlanta, Ga.:
 accounts and deposits in all commercial banks in district, summary, 9758
 airport capacity analysis, 1980 metropolitan area, staff study, 13649
 area wage survey, 16016
 Atlanta Airport, climatological summaries, 16489
 Camp Creek and North Fork Camp Creek floods, how to avoid damage, 12525
 flood plain information, 9666, 9685, 9696
 model cities program, history and analysis, 8401
 Atlantian (periodical), 2614
 Atlantic City, N.J., climatic summaries of resort areas, 11020

INDEX 1969

Atlantic Coast:

- Atlantic coastal fishes, estuarine dependence, studies, 17397
 - coast plot—
 - Cape Cod to Sandy Hook, 5275
 - Cape Henry to Key West, 6531
 - Eastport to Cape Cod, supplement, 5276
 - Gulf of Mexico, Puerto Rico, and Virgin Islands, supplement, 5279
 - Sandy Hook to Cape Henry, 6530
 - Continental Shelf and slope—
 - color of marine sediments, 5716
 - 19th century exploration, 1966
 - organic extracts from deep core samples, study, 12779
 - hurricane information and Atlantic tracking chart, 9729
 - light lists—
 - Little River, S.C., to Rio Grande, Tex., and Antilles, 6536
 - St. Croix River, Maine, to Little River, S.C., 5280
 - nautical chart catalog, 12060
 - North America—
 - oyster mortalities, 1669
 - tidal current tables, 15153
 - passenger lists of vessels arriving at ports (excluding New York) 1820-1874, supplemental index, pamphlet to accompany microcopy, 16220
 - surf clams, history, etc., 320
 - surface water, temperature and density, 296
 - waterborne commerce, 1966 calendar year, 8182
- Atlantic consultation, President Nixon in Europe, 7482
- Atlantic Ocean:
- east coast, U.S.A., Loran-C table, pair, SS 7-X, 14733
 - Gulf Stream, position of northern edge, etc., monthly summary, 3144
 - supplement, 10223
 - maturity and spawning of skipjack tuna, with comments on nematode infestation of ovaries, 5307
 - middle, western region, fisheries, agreement with—
 - Poland, 14915
 - Union of Soviet Socialist Republics, 6294-5
- North—
- Cephalopoda, family
 - Cycloteuthidae, monograph, 13419
 - Jonibenthidae, monograph, 13427
 - convention on conduct of fishing, operations, 7996
 - report, 16835
 - edge of Gulf Stream, oceanographic cruise summary, 13259
 - Ocean Station DELTA oceanographic observations, 12062
 - Station Bravo, oceanographic observations, 15155
 - Station Echo, oceanographic observations, 15156
 - western, Gulf Stream, historical mean surface temperature data, monthly summary, supplement, 10223
- North and South, major currents, etc., 4824
- radio navigational aids, change, 6129
 - tropical storms and hurricanes, climatology, errata, 616
 - western, shrimps of genus *Penaeus*, 12075
- Atlantic Oceanographer Laboratories, ESSA technical memorandums, ERLTM-AOL series, 611
- Atlantic-Pacific Interoceanic Canal Study Commission:
- annual report—
 - 12154
 - appropriations, 1970—
 - hearings, 12204
 - report, 15298

Atlantic salmon, see Salmon.

Atlantic States:

- cost of transporting freight, 12866
 - Mid-Atlantic air pollution control, consent to compact, hearings, 8089
- Middle—
- employment statistics, 1958-66, compilation, 12979
 - fisheries, annual summary, 3915
 - truck inventory and use survey, 3831
 - war on poverty, examination, case study, 10914
- North, small business regional export industries and institutions over next decade, potentials and problems of developing, hearings, 5466
- North Atlantic slope basins, surface waters—
- quality, 12801
 - records to Sept. 30, 1967, index, 736
- regional reports, Middle Atlantic region, 12979-981, 14468
- small business regional export industries and institutions over next decade, potentials and problems of developing, hearings, 4100
- south Atlantic—
- annual survey of manufacturers, 1966, statistics of States, standard metropolitan statistical areas and large industrial counties, 1615
 - fisheries, annual summary, 13816
 - slope basins, surface waters, quality, 12801
 - truck inventory and use survey, 5203
- southeast Coastal Plain, rural, characteristics of human resources with emphasis on poor, 8151
- Atlantic Underwater Test and Evaluation Center:
- AUTEC sediment deposition/erosion study, interim report, 13219
 - taut wire buoy array for environmental monitoring in AUTEC, 13231
- Atlantida, un estudio de caso en encuestas de hogares por muestra, Unidad 7, crítica y codificación, 1624
- Atlas-Centaur launch vehicle, see Spacecraft.
- Atlases:
- catalog of copyright entries, 517, 4117, 14067
 - climatic atlas of United States, 1830
 - community action agency, 8145
 - congressional districts, 91st Congress, 1618
 - fishermen's atlas of monthly sea surface temperatures for Gulf of Mexico, 3918
 - forest atlas of Northeast, 669
 - Great Lakes ice atlas, 11357
 - Gulf of Mexico shrimp atlas, 9224
 - lower Mekong Basin, physical, economic, and social resources, 5803
 - mental retardation syndromes, 8836
 - moon, reverse side, 10158
 - Navy marine climatic world, 11559
 - TIORS VII monthly maps of emitted radiation in 8-12 micron atmospheric window over Indian Ocean area, 10106
 - turkeys, myology and osteology, 196
 - world maps of long-wave radiation and albedo, 1837
 - see also Maps and charts.
- Atmosphere:
- airborne atmospheric research, ESSA Research Flight Facility, 15676
 - atmosphere's geopotential height distribution from satellite radiation measurements, statistical estimation, 6921
 - atmospheric attenuation at wavelengths from 75 centimeters to 2 millimeters, review of radiometric measurements, 10104
 - atmospheric dewpoint measurement from aircraft, 1262
 - atmospheric dispersion estimates, workbook, 10303

Atmosphere—Continued

- atmospheric disturbances on space vehicle design using statistical approaches for analysis, influential aspects, 4708
- atmospheric emissions from—
 - hydrochloric acid manufacturing processes, 17345
 - thermal-process phosphoric acid manufacture, 1342
- atmospheric limits on observational capabilities of aerospacecraft, 1144
- atmospheric paths of sight, directional reflectance, 13306
- atmospheric scattering from 1.15-micron laser beam and its off-axis detectable range, 1836
- atmospheric water resources program, Project Skywater annual report, 7439-40
- attenuation of microwave radiation for paths through, at elevation angles, 13279
- contaminant and atmospheric sensor, analytical study, 16122
- continuous air monitoring projects—
 - National Air Surveillance Networks, tabulations and summaries—
 - 1962-63 data, Chicago, 17347
 - 1964 data, Chicago, Cincinnati, Philadelphia, St. Louis, Washington, D.C., 14797
 - 1965 data, 16358
 - 1967 data—
 - Chicago, 16359
 - St. Louis, 16360
 - Washington, D.C., 16361
 - 1962-65, Philadelphia, 17348
 - determining physical properties of Martian atmosphere by solar occultation from artificial satellite, 17223
 - entry and landing for manned planetary missions, research problems, 4714
 - helium-oxygen, biochemical and metabolic effects on small animals of 6-month exposure, 17197
 - hemispheric teleconnections of mean circulation anomalies at 700 millibars, 12573
 - human dimensions of atmosphere, 1232
 - late spectral type atmospheres, theoretical molecular line absorption of CO, 2222
- Martian—**
 - density, analysis of gamma-ray backscatter technique for direct measurement, 16180
 - 1967, models, 1044
 - television experiment for three point-mass descent trajectories, requirements, 4749
 - measurements of negative ion production in atmospheric gases, 16131
 - model atmospheres containing horizontal gradients of temperature and pressure, limb radiance calculation approach, 17242
 - modified, effects on market quality of lettuce shipped in nitrogen-refrigerated and mechanically refrigerated trailers, 3647
 - national atmospheric sciences program, 1969 fiscal year, 4252
 - near-horizontal atmospheric paths, measurements of laser beam spread and curvature, 9726
 - normal and ionized, ground wave propagation, 14166
 - oxygen-enriched, flammability of skin and hair, 10525
 - ozonesonde observations over North America, 1532
 - physics of atmosphere and ocean, USSR studies, 15945
 - planetary-entry-vehicle heat shields, radio-frequency transmission characteristics of candidate ablation materials, 2235

Atmosphere—Continued

- processing and display experiments using digitized ATS-1 scan scan camera data, 14171
- radiation, atmospheric, transfer, on plane parallel representation, 6149
- radiometric techniques applicable to measurement of atmospheric attenuation at millimeter wavelengths, 10155
- re-entry flow fields in atmosphere, review of rate constants of selected reactions of interest, 10181
- salivary acid-base levels during exposure to elevated carbon dioxide atmosphere, 5929
- severe atmospheric conditions effects on aircraft, USSR study, 12901
- slurry explosives for use in potentially flammable gas atmospheres, development, 977
- spacecabin, removal of acid gases and oxides of nitrogen, 13049
- stratified—
 - development of sonic-boom signatures, 1109
 - sonic boom propagation with computer program, 7235
- tall stacks, various atmospheric phenomena and related aspects, 1349, 13356
- transfer of microwave radiation, transactions of Main Geophysical Observatory, Im.A.I. Vovaykov, 13150
- turbulent wind field below 150M altitude at Eastern Test Range, investigation, 14582
- upper—
 - air observations above 30 kilometers, Federal plan, 14172
 - atmosphere and space, USSR research, 12937
 - atmosphere geophysics—
 - report UAG series, 4225, 6923
 - World Data Center A, activities, etc., 1843
 - density-determination using NRL artificial satellites, 10264
 - electrostatic fields, measurement in earth's atmosphere, 12957
 - radioactivity study by means of balloons, agreement with Australia, 11723
- see also Air.
- Atmospheric entry:**
 - candidate re-entry blackout suppressants in low-pressure flames, vaporization and decomposition kinetics, 14567
 - planetary-entry-vehicle heat shields, radio-frequency transmission characteristics of candidate ablation materials, 2235
 - radiative and convective heating, 1007
 - reentry equations with 4 degrees of freedom, computer mechanization, 1036
 - review of rate constants of selected reactions of interest in re-entry flow fields in atmosphere, 10181
- Atmospheric Physics and Chemistry Laboratory:**
 - ESSA technical report, ERL-APCL series, 615, 9720-21
 - weather modification program, symposium, 12576
- Atmospheric pressure:**
 - aeronautical pressure measuring equipment, standard calibration table for, military standard, 4134
 - barometric pressure effects, behavior of xenon-133 gas after injection underground, 16623
 - compressibility data for helium at 0°C and pressures to 800 atmospheres, 14551
 - monthly mean 100-, 50-, 30- and 10-millibar charts and standard deviation maps, 16973
- Atmospheric Sciences Library, Soviet literature accessions, guide, 55S1-82, 12575**

Atmospheric temperature, *see* Temperature.
 Atmospheric waves, *see* Waves.
 Atolls, *see* Coral reefs and islands.
 Atomic absorption, methods of analysis useful in geochemical exploration, 17071
 Atomic auxiliary power generators :
 SNAP-8—
 design-point performance of double-containment tantalum-and-stainless-steel mercury boiler, 1137
 system, transfer functions for radiator dynamics, 2246
 SNAP-21 program, phase 2, thermoelectric generator, performance evaluation and design description, 7688
 Atomic blasting :
 development and management of water resources, potential applications, 5171
 national policy on peaceful uses of nuclear explosives (remarks), 7718
 nuclear construction engineering technology, 7689
 Plowshare program, civil, etc., used for nuclear explosives, 1600-2, 3803-6, 7696
 seismic interference and reciprocity for IIE row charge, Project Dugout, 13705
 underground emplacement of nuclear explosives, construction techniques and costs, Plowshare program, 13708
 Atomic debris, *see* Radioactivity.
 Atomic energy :
 abundant nuclear energy, symposium proceedings, 9065
 application of safeguards, agreement with Canada, 8890
 atomic transition probabilities sodium through calcium, 17263
 civilian nuclear power—
 advanced converter reactors, evaluation, 10568
 alternate coolant fast breeder reactors, evaluation, 9076
 gas-cooled fast reactors, evaluation, 10569
 steam-cooled fast breeder reactors, 11964
 use of thorium in nuclear power reactors, 15077
 code of Federal regulations, 8219
 competition in nuclear power supply industry, report, 5165
 computers in nuclear industry, effective use, conference proceedings, 9067
 cooperation—
 international agreements, hearings, 3937
 mutual defense purposes, agreement with Great Britain, 8897
 cooperation for civil uses, agreement with—
 Argentina, 14922
 application of safeguard by IAEA, 14923
 Brazil, applications of safeguards by IAEA, 4974
 Iran, 14927
 application of safeguards by IAEA, 16481
 Philippines, applications of safeguards by IAEA, 7492
 Portugal, 14918
 application of safeguards by IAEA, 14919
 Turkey, application of safeguards by IAEA, 13485
 desalting and energy development and utilization, practical considerations (remarks), 6478
 employment outlook, 4571
 energy utilization growth (remarks), 205
 Enrichment Services Seminar, proceedings, 7694
 fundamental nuclear energy research, 5187
 high-energy, astrophysics, lectures, 11430

Atomic energy—Continued
 International Atomic Energy Agency to have greater share in U.S. resources (remarks), 15082
 international nuclear industry, 1968 report (remarks), 201
 legislation through 90th Congress, 2d session, compilation, 3936
 licensing and environmental considerations in atomic power development, checklist (remarks), 10571
 looking ahead in nuclear power (remarks), 10572
 meeting the energy gap (remarks), 15080
 mound builders of nuclear age (remarks), 202
 NERVA control drum actuator irradiation test program, 13122
 New Brunswick Laboratory, research progress report, 13698
 nuclear desalting, U.S. programs and activities (remarks), 6480
 nuclear industry 1968 and beyond (remarks), 203
 nuclear information need, 15081
 nuclear power—
 and water desalting plants for southwest United States and northwest Mexico, preliminary assessment conducted by joint United States-Mexico-International Atomic Energy Agency study team, 5177, 5179
 benefits and risks (remarks), 16632
 facts instead of fiction (remarks), 10574
 new overview (remarks), 6476
 papers from 7th World Power Conference, 2091
 role in Northwest (remarks), 15084
 nuclear supply industry, present and future, of U.S. (remarks), 5189
 peaceful uses, safeguards, research and development, 3814
 practical uses, USSR study, 7154
 products, current industrial reports, 12005
 program—
 bibliographies, 192
 fiscal year 1970 and beyond, brief look (remarks), 3816
 major activities, 10573
 providing for public safety in nuclear industry, the engineering approach (remarks), 9083
 publications, price list, 7410
 studies of sites for nuclear facilities, Brookhaven Nat'l Laboratory (series), 728
 understanding nuclear power (remarks), 13725
 understanding the atom series, 3820, 5192, 7720-22
 United States nuclear power industry competition among suppliers, study (remarks), 207
 utility staffing for nuclear power, 16630
 Atomic Energy Agency, International, *see* International Atomic Energy Agency.
 Atomic Energy Commission :
 AEC critical review series, 5176, 9071
 AEC-NASA tech brief, 3155
 AEC-NASA technology survey, 7246
 AEC research and development report, 185-196, 1594-1606, 3788-3815, 5135-85, 6466-75, 7674-7715, 9063-77, 10556-569, 11959-964, 13685-721, 15062-77, 16603-631
 AEC symposium series, 9065
 annual report—
 departmental edition, 10570
 document edition, 10818
 appropriations, 1969 supplemental proposal, 9283

Atomic Energy Commission—Continued
 appropriations, 1970—
 authorizing—
 hearings, 9243
 law, 12129
 reports, 10733, 10737, 12250
 public works—
 hearings, 13918
 report, 15298
 biology and medicine—
 research and development in progress, 193
 research program, administration and management, 7037
 cataloging reports—
 corporate author headings, 7706
 report number series used by Technical Information Division, 13714
 contracting for research with sponsored nonprofit contractors, need for improving guidelines, GAO report, 5689
 descriptive cataloging guide, 3810
 developing human resources, AEC contractors' affirmative action programs, 15079
 food irradiation contractors' meeting, 3797
 fundamental nuclear energy research, 5187
 gaseous diffusion plants future ownership, selected materials, 10687
 Health and Safety Laboratory, fallout program, quarterly summary reports, 187, 5154, 7683, 13694
 appendix, 188, 5155, 7684, 13695
 management of equipment, GAO report, 5694
 news release indexes, 5134, 13684
 omnibus legislation, 1969, hearing, 16745
 operational accidents and radiation exposure, 1943-67, experiences, 5188
 press releases, 3269
 procurement of certain products from private industry, 720
 programs, major activities, 10573
 research facilities, estimated and actual costs, estimates, GAO report, 5682
 research in chemistry (on site), summaries, 5172
 rules and regulations, 2615
 science information available, 7703
 subject headings used in indexing nuclear science abstracts, 7705, 16628
 telephone directories, 3819, 13724
 Atomic Energy Joint Committee:
 committee prints, 3936, 6564, 10687, 15215
 current membership publications, etc. through 90th Cong. 2d sess., 6564
 hearings, 3937, 9243-44, 10686, 13847, 16745
 reports, 10733, 12250
 Atomic ordnance, nuclear ordnance, Federal Identification guides for supply cataloging, supplements, 2850
 Atomic power, *see* Atomic energy.
 Atomic power engineering, *see* Nuclear engineering.
 Atomic power plant, *see* Nuclear reactor power plants.
 Atomic spectra, *see* Spectra.
 Atomic transition probabilities, sodium through calcium, 17263
 Atomic warfare:
 interdisciplinary conference on selected effects of general war, proceedings, 6825
 world of nuclear powers? Air Force Assembly, final report, 64
 Atomic weapons, *see* Weapons.
 Atomization, dynamic response of liquid jet atomization to acoustic oscillations, analysis, 13117
 Atomizers, ejection type, theory and design USSR study, 5820
 Atoms:
 all-Union conference held in Minsk, on peaceful uses of atom, USSR, 839
 atoms and your health (remarks), 15078

Atoms—Continued
 atom's expanding role in—
 industry (remarks), 11965
 medical world (remarks), 5186
 atoms in action, Nuclear Science Demonstration Center in Bucharest, inauguration ceremony (remarks), 15083
 electronic structure, and Mendeleyev's periodic law, USSR study, 15960
 fast, hot plasma production during injection into magnetic traps, 5143
 international atom, new appraisal—
 address, 8882
 keeping the peaceful atom peaceful (lecture), 3818
 past and the promise (lecture), 3817
 sodium atoms, multiphoton ionization, 15073
 understanding the atom series, 3820, 5192, 7720-22
 Atropine, effects on composition of unstimulated human parotid fluid, 15018
 ATS (applications technology satellites), *see* Satellites.
 Attachment, exemptions, in case of non-residents, amend D.C. code, report, 12176
 Attention, *see* Vigilance.
 Attenuation:
 and backscattering of infrared radiation by ice fog and water fog, 11932
 atmospheric attenuation at wavelengths from 75 centimeters to 2 millimeters
 review of radiometric measurements, 10104
 clutter attenuation analysis, 7377
 coefficients, photon cross-sections, and energy absorption coefficients from 10 keV to 100 GeV, 14667
 microwave radiation for paths through atmosphere, 13279
 neutron and photon attenuation through lithium hydride and tungsten spherical media, transport study, 4719
 noise, predicting in acoustically treated ducts for turbofan engines, studies, 14570
 Project RAM, theoretical flow field calculations, 11405
 radiometric techniques applicable to measurement of solar activity and atmospheric attenuation at millimeter wavelengths, 10155
 sound, provided by perforated earmuffs, 1548
 visible light by falling snow, 15038
 Attenuators, based on ferrite resonance switch, 16611
 Atterbury Job Corps for Men, Edinburg, Ind., effectiveness and administration, GAO report, 12735
 Attinello, John S., relief, 16766
 Attitude (inclination):
 attitude angle and air flow, experiment on rotating externally pressurized air journal bearings, 11452
 Attitude (psychology):
 aircrew attitudes and job-satisfaction, trends—
 2-year study, 13630
 wives' report, 100
 Cincinnati police-juvenile attitude project, a demonstration project in police-teacher curriculum development to improve police-juvenile relations, 872
 social work student attitudes and knowledge about mental retardation, effect of differences in curricula and experiences, 6060
 see also Public opinion.
 Attitude control, *see* Aircraft—Satellites—Spacecraft.
 Attleboro, Mass., railroad accident, report, 11083
 Attorney General, *see* Justice Department.
 Attorneys, *see* Lawyers.
 Attractants for Japanese beetle, 5067

- Aubertin, Gerald M., improved technique for taking hydraulic conductivity cores from forest soils, 17026
- Auctions, livestock, how packers and stockyards act supplies, 11878
- Audiogram:
pure-tone—
air conduction audiogram, 16571
relationship to naval aviator's speech discrimination test, 14498
- Audiologists, employment outlook, 4554
- Audiology:
pure-tone air conduction audiogram, 16571
sound attenuation provided by perforated earmuffs, 1548
- Audiometers, modification and pulse-tone technic for pure-tone threshold determination, 1550
- Audiometry:
comparison of 7 systems for air conduction audiometry from 8-20 KC/S, 13000
pure-tone air conduction audiogram 16571
use of circumaural earphones, 926
- Audio-visual education, dentistry, selected list of audiovisuals, 14699
- Audio-visual equipment:
and materials, guide to sources of information and market trends, 9092
audiovisual theory, aids, and equipment, training methodology, annotated bibliography, 8821
- Auditing:
audit function at Health, Education and Welfare Dept., development and status, GAO observations, 8332
Commerce Dept., career, 13803
Defense Department internal audit of civilian payroll operations, opportunities for improving, GAO report, 11219
Manpower Administration contracts, guide 15995
Treasury Department, internal audit activities, GAO review, 15787
United States Information Agency internal audit activities, GAO review, 9878
Veterans Administration, internal audit activities, need to improve and relocate, GAO report, 15784
Washington Internal audit activities of International Development Agency, GAO review, 4346
see also for audit reports names of corporations, etc.
- Auditors:
careers with Interstate Commerce Commission, 11313
DSA civilian career program, 9516
examination announcement, amendment, 1638
internal auditor, Internal Revenue Service, 15868
pay, national survey, 4597
training program, 1968 college recruiting report, 11058
- Auditory acuity, *see* Acuity.
- Auditory perception, *see* Perception.
- Auditory system, *see* Hearing.
- Audits, *see* Auditing.
- Audubon National Wildlife Refuge, general information, 10397
- Augers, can auger planting improve survival of Douglas-fir seedlings? 12703
- Augusta, Kans., Walnut River floods, how to avoid damage, 9703
- Aurantioideae *see* Oranges.
- Auroras:
artificial, predicting location, parametric angles of trajectory-determined-field line intersects, 13074
airglow and auroral phenomena, space flight investigations, opportunities for participation, 1151
aurorae and airglow, results of research on International Geophysical projects, 6026
- Austin, John W., production, prices employment, and trade in Northwest forest industries, 3337
- Australia:
agriculture, with emphasis on trade with Far East countries, 9643
Ausuz pact, review of U.S. military commitments abroad, report of subcommittee, 1697
climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—graphs, 1842
maps 4221
east coast, sailing directions, change, 8748
economic trends and their implications for United States, 5799, 15878
labor conditions and labor organizations, 7188
lights and fog signals, list, changes, 6127, 12264, 17301
market factors, 10657
mineral industry, minerals yearbook chapter, 2134
nautical charts and publications, catalog, 10229
north and west coasts, sailing directions, change, 6123
radioactivity study of upper atmosphere, agreements, 11723
river adjustment to altered hydrologic regimen, Murrumbidgee River and Paleochannels, 4366
scientific and technical cooperation, agreement, 6285
south coast, sailing directions, change, 8749
southeast coast, sailing directions, change, 4821
telecommunication facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement, 8889, 16472
- Austria:
Ambassador, nomination of John P. Humes, hearing, 15454
business machine market, 3893
economic trends and their implications for United States, 2033, 9992
records of Department of State, microcopy, pamphlet to accompany—
internal affairs, 1164
political relations with U.S. and other states, 10169
selling in Austria, 7799
- Austria-Hungary:
records of Dept. of State, pamphlet, to accompany microcopy—
internal affairs, 1164, 2278
political relations with U.S. and other states, 2279, 10169
- AUTEC, *see* Atlantic Underwater Test and Evaluation Center.
- Authors:
index medicus, cumulated 7349
L. C. national union catalog, cumulative list, 3170
register of additional locations, 16039
technical writers, employment outlook, 4526
- Autecology, *see* Ecology.
- Automatic data processing equipment, *see* Electronic data processing system.
- Automatic picture transmission, ground equipment, weather satellite picture receiving stations, inexpensive construction, report, 13063
- Automation:
automated microanalysis of urinary ammonia, 3700
automatic control—
data processing, progress, USSR study, 12934
4th all-Union conference, USSR, 2075, 7142

Automation—Continued

- automatic planning, accounting and control systems in coal industry, USSR study, 12930
- automatic systems, USSR study, 8498
- automation and tele-mechanics, translations, USSR study, 15953
- computer programs and subroutines for automated cartography, 10221
- expansion in terminal ATC facilities, 14936
- International Federation of Automatic Control, papers presented, June 16-21, 1969, Warsaw, USSR study, 15980
- manpower and automation, work force adjustments in private industry, their implications for manpower policy, 878
- manpower/automation research notice, 3097
- manpower, research monographs, 878, 2103, 7164, 11331
- rheumatic fever registries, report of seminar, 17329
- technology—
 - Communist Chinese abstracts, 2682
 - East European abstracts, 2778
 - USSR abstracts, 3564
- telemetric automated microbial identification system and subsystems, 80
- see also* Mechanization.
- Automobile accidents, *see* Motor vehicle accidents.
- Automobile drivers:
 - physical condition, affect on sight sensors, home study driver course, 9163
 - right-of-way stopping, techniques for passing, home study driver course, traffic safety, 10611*see also* Motor vehicle operators.
- Automobile driving:
 - affect of physical condition on sight sensors, home study driver course, 9163
 - right-of-way stopping, techniques for passing, home study driver course, traffic safety, 10611
- Automobile insurance, liability, industry, investigation, hearings, 4089, 6795
- Automobile license plates:
 - bias in license plate traffic survey response, evaluation, 14814
 - congressional automobile tags, issuance of additional one to each Member of Congress, authorize, 12181
- Automobile mechanics, *see* Mechanics (persons).
- Automobile men, *see* Mechanics (persons).
- Automobile painters, *see* Painters.
- Automobile tags, *see* Automobile license plates.
- Automobiles:
 - Canadian agreement, operation of automotive products trade act of 1965, annual report, 12293
 - cost of operating, 4253
 - excise tax—
 - impose on concrete mixers, report, 453
 - rates, continue—
 - conferees decisions, summary, 5439
 - hearings, 10808, 10895
 - reports, 10739, 10742, 12270
 - imported into U.S., regulations, 4121
- Industry—
 - 1968, are planning and regulation replacing competition in American economy? case study, hearings, 5465
 - role of giant corporations in American and world economies, 16899
 - instalment credit developments (periodical), 2616
 - new automobiles as loan security, 11055
 - parts countermeasures, employment outlook, 4478

Automobiles—Continued

- recent purchases and expectations to buy—cars, houses and other durables, survey data, 13770
- during months ahead, 5225, 9160
- report of U.S. households, 246
- removal of nonferrous metals from synthetic automobile scrap on heating in rotary kiln, 2177
- safety program, role of Transportation Department (remarks), 2518
- tax rates, extension, amendments, summary, 432
- USSR industrial development, automotive industry, translations, 3554
- warranties, FTC staff report, 1894
- see also* Vehicles.
- Automotive body and fender repairman, *see* Body and fender repairman.
- Automotive mechanics, *see* Mechanics (persons).
- Automotive parts, *see* Repair parts.
- Automotive repair industry, 9474
- Automotive trades, *see* Motor vehicles.
- Automotive transportation, *see* Automobiles.
- Autonomy, USSR, independence of kolkhoz members discussed, study, 2094
- Autopilots, *see* Aircraft automatic pilots.
- Autoxidation, *see* Oxidation.
- Avalanche diodes, and their application in microwave equipment, USSR study, 15924
- Avalon, N.J., floods, how to avoid damage, 12487
- Averitt, Paul, coal resources of United States, 4354A
- Aves, *see* Birds.
- Aviation, *see* Aeronautics—Aircraft.
- Aviation accidents, *see* Aircraft accidents.
- Aviation boatswain's mates:
 - E 3 & 2, Navy training course, 4827
 - H 3 & 2, Navy training course, 10241
- Aviation fields:
 - Army airfield-heliport—
 - pavement reports, technical manual, 16600
 - rigid and overlay pavement design, technical manual, change, 13662
 - Army, planning aviation facilities, technical manual, 3776
 - military, instrument approach procedure charts, 3119
 - pavements, evaluation of airfield pavements other than Army, flexible airfield pavement evaluation, Army technical manual, 178
- Aviation fuel, *see* Motor fuel—Turbine fuel.
- Aviation machinists:
 - mate J 1 & C, training manual, 16310
 - mate, J 3 & 2, Navy training course, 4828
- Aviation maintenance administrationman, 1 & C, Navy training course, 7374
- Aviation medicine, *see* Medicine.
- Aviation storekeeper, 1 & C, Navy training course, 2341
- Aviation structural mechanics, *see* Mechanics (persons).
- Aviation support equipment technicians:
 - H 3 & 2, Navy training course, 2342
 - 1 & C, Navy training course, 1247
- Aviators:
 - aeronautical communications and pilot services handbook, 2556
 - airline transport pilot, written test guide, 1847
 - aviation weather services, pilot's guide, 9730
 - certificated pilot flight and ground schools, list, 12596
 - commercial pilot, airplane flight test guide, 15688
 - flight navigator written test guide, 12585
 - foreign students for training in United States Air Force, selection, 6403

Aviators—Continued
 general-aviation pilot—
 reactions to and opinions on grooved
 runways, 14591
 weather or not, weather briefing guide,
 10212
 memorandum for aviators, 3111
 naval aviator's speech discrimination test,
 relationship to pure tone audiogram,
 14498
 of flight and bold men, 16569
 pilot describing functions, technique for
 identifying from routine flight-test re-
 cords, 10108
 pilot performance—
 during instrument flight in dissimilar
 aircraft simulators, comparison of
 effects of peripheral vision cues, 10579
 transfer of training and degree of simu-
 lation, non-jet experienced pilots
 versus simulation fidelity, 1255
 pilot rating in evaluation of aircraft
 handling qualities, use, 8633
 pilot schools, Federal aviation regulations,
 change, 4242, 15687
 pilot warning indicator system, compila-
 tion of data from related technologies,
 10120
 plots and flight instructors certification—
 Federal aviation regulations, 9741,
 15684
 handbook, 11045
 psychiatric strengths and weaknesses of
 typical Air Force pilots, 3717
 search and rescue operations for U.S.
 citizens and craft in foreign areas,
 hearing, 7959
 student pilot guide, 5597
 training aircraft, agreement with Indo-
 nesia, 17408
 Avram, Henriette D., MARC pilot project,
 final report, 5921
 Awamura, Yuka, relief, 4045, 9234, 6637
 Awards (arbitration):
 National Railroad Adjustment Board,
 1231, 4809, 7359-61
 Awards (incentive), *see* Rewards (prizes,
 etc.).
 Awoshika, Katsuyuki, application of simi-
 litude to model design of soil projectile
 system, 1027
 AWS, *see* Air Weather Service.
 Axial compression:
 and lateral pressure, general instability of
 eccentrically stiffened cylindrical shells,
 4687
 effect of test machine extensional rigidity
 on initial buckling load for unreinforced
 circular cylindrical shells, 13670
 single-stage, axial compressor component
 development for small gas turbines,
 13675
 Axial flow, *see* Flow.
 Axial load fatigue, *see* Strains and stresses.
 Axisymmetric and cylindrical isostabiloids,
 17206
 Axles, classification definitions, 1294
 Aydelott, John C.:
 effect of size on normal-gravity self-
 pressurization of spherical liquid hydro-
 gen tankage, 10125
 venting of liquid hydrogen tankage, 11474
 Ayensu, Edward S., systematic anatomy and
 ontogeny of stem in Passifloraceae, 10199
 Aykent, Yavuz, relief, 13956
 Ayoub, J. J., jr., waveguide tunnel-diode
 amplifier, design considerations, 6143
 Ayrshire cattle, *see* Cattle.
 Ayuda de pago suplementario del alquiler
 para inquilinos, 5760
 Azaleas, growing information, 5039
 Azerbaydzhani Soviet Socialist Republic:
 Academy of Sciences—
 elects new members, 5822
 new candidates, 12909
 scientific achievements detailed, 5830

Azimuth:
 attitude and attitude rate constraints,
 with optimal 3 dimensional launch vehi-
 cle trajectories, 7287
 azimuthally dependent modes on uniform
 solid electron beams, 3741
 Aziridinyl chemosterilants for house flies, 2
 Azov, Sea of, lights and fog signals, list,
 changes, 2335, 8751, 16303
 Azovskoye More, *see* Azov, Sea of.

B

B.C.F., *see* Commercial Fisheries Bureau.
 B.E.R.C., *see* Biomedical Engineering Re-
 source Corporation.
 Baballars, Konstantinos N., relief, 8010,
 16727, 16751
 Babcock, Clarence O., effect of increasing end
 constraint on compressive strengths of
 model rock pillars, 16098
 Bables, *see* Infants.
 Babbitzke, Herbert H., columbium and tan-
 talum alloy development, 2178
 Baccalaureate sources of science and engi-
 neering manpower, 4815
 Bachman, George O.:
 geology of—
 Bear Peak area, Dona Ana County,
 N. Mex., 14431
 Mockingbird Gap quadrangle, Lincoln
 and Socorro Counties, N. Mex., 749
 Back Bay National Wildlife Refuge, general
 information, 16445
 Back to Brandeis (remarks), 8236
 Backenheimer, Michael S., persons hospi-
 talized by number of hospital episodes
 and days in year, 6211
 Background and motivational characteristics
 of medical officer candidates for submarine
 service, 16068
 Background notes, 1436, 2481-84, 1948-61,
 6260-71, 7476-81, 8872-78, 10404-409,
 11691-700, 14890-903, 16459-461, 17398-
 402
 Backpacking in national forest wilderness,
 a family adventure, 10493
 Backscatter:
 gamma-ray, analysis technique for direct
 measurement of density of Martian at-
 mosphere, 16180
 ground, computer routines for synthesizing
 from three-dimensional raysets, 14165
 Baesalmassy, John A., relief, 6749
 Bacteria and bacteriology:
 bacteriological analytical manual, 8267
 oral acidogenic bacteria in Antarctic,
 12998
 pathogenic bacteria, effect of repeated
 treatment with gamma rays on radio-
 resistance, virulence, and culture char-
 acteristics, final report, 7686
 rapid identification of microorganisms by
 continuous particle electrophoresis, 102
 scientific and industrial work with bac-
 teria, USSR studies, 8522
 screening for bacteriuria, 13372
 telemetric automated microbial identifi-
 cation system (TAMIS) and subsystems,
 80
 see also Culture media—Endotoxins—
 also names and classes of bacteria.
 Bacteriological warfare, *see* Biological war-
 fare.
 Bacteriuria, *see* Urine.
 Bad River and Valley, Arikara archeology,
 Bad River phase, 1381
 Bader, J. S.:
 ground-water data as of 1967—
 central coastal subregion, Calif., 12772
 north coastal subregion, Calif., 9897
 north Lahontan subregion, Calif., 9898
 Sacramento basin subregion, Calif.,
 12773
 San Joaquin basin Subregion, Calif.,
 12774

- Bader, J. S.—Continued
 references for well data and water levels
 in California by Geological Survey,
 14356
- Badger Creek, Badger flats beryllium area,
 Park and Jefferson Counties, Colo., geol-
 ogy and beryllium deposits, 12781
- Badlands National Monument, general in-
 formation, 6072
- Bae, Sa Cha, relief, 16755
- Baehr, Melany E., psychological assessment
 of patrolman qualifications in relation to
 field performance, S530
- Baffin Bay:
 oceanographic cruise summary, 13228,
 13260
 oceanography, 1648
- Baggage:
 classification definitions, 2372
 luggage, briefcases, and personal leather
 goods, current industrial reports, 2732
 savings available by using space on mili-
 tary aircraft to transport baggage be-
 tween United States and Pacific and
 Southeast Asia, GAO report, 9879
- Bags:
 comparison of keeping quality of Jonathan
 and red delicious apples prepackaged in
 film boxes, S946
 sacks, etc., trade and tariff information,
 summaries, 1461
- Bahamas:
 capsule facts for Armed Forces, 116
 comparison of synoptic temperature-depth
 observations in Tongue of Ocean, 13227
- Bahrain, capsule facts for Armed Forces,
 126
- Baier, R. E., wettability and Mair infrared
 spectroscopy of solvent-cast thin films of
 polyamides and polypeptides, 2354
- Bail:
 policy and determinations, administration
 of justice in D.C. during and after civil
 disorders of Apr. 1968 and in riot-related
 prosecutions, 13322
 reform act of 1966, amendments, hearings,
 10907
- Bail Agency:
 District of Columbia—
 staff, increase—
 hearing, 5436
 report, 12255
 supervision of all persons released on
 nonsurety release, etc., report, 12255
- Bailey, Jack E., Alaska's fishery resources,
 pink salmon, 6549
- Bailey, M. H., Shenandoah National Park,
 Va., climatic summaries of resort areas,
 9719
- Bailey, R. A., stratigraphic nomenclature of
 volcanic rocks in Jemez Mountains,
 N. Mex., 9889
- Bailey, Ralph, current population survey re-
 interview program, 3863
- Bairdia, revision of recent Bairdiidae (Os-
 treacoda), 13182
- Bait, guides against bait advertising, 6986
- Baker, Charles W., larval taxonomy of trogi-
 nae in North America with notes on bi-
 ologies and life histories (Coleoptera:
 Scarabaeidae), 2313
- Baker, Donald M., observations of acoustic
 waves in the ionosphere following nuclear
 explosions, 1835
- Baker, H. R.:
 preservative-lubricant for small arms,
 1265
 surface chemical methods of displacing
 water or oils, and salvaging flooded
 equipment, etc., S762
- Baker, J. K., theoretical thermodynamic
 properties of gases at high temperatures
 and densities with numerical results for
 hydrogen, 2352
- Baker, James D., certitude judgments in op-
 erational environment, 6448
- Baker, James J., *Californium-252*, symposium
 proceedings, 9066
- Baker, John A.:
 addresses, etc.—
 Aug. 22, 1968, 25
 Sept. 9, 1968, 60
 Sept. 16, 1968, 59
 Sept. 21, 1968, 37
- Baker, Roy V., seed cotton and cottonseed
 handling with air-jet conveyors, 4
- Bakers and bakeries:
 bakery departments in retail foodstores,
 on-premise and bake-off, evaluation, 5051
 baking and milling industry (address),
 3631
 baking industry, employment outlook,
 4572
see also Cooks.
- Baking, *see* names of foods baked.
- Bako, Elmer, Hungarians in Rumania and
 Transylvania, bibliographical list, 13860
- Balance of payments:
 administration's proposals, digest of oral
 testimony, 1714
 capital flows, since 1965 (paper), 650
 deficit (remarks), 1650, 7552
 foreign commerce and our balance of pay-
 ments (remarks), 1662
 foreign direct investment controls, termi-
 nate, hearings, 10781
 Government programs to increase exports
 and strengthen our domestic economy
 (address), 16700
 improving U.S. position in world trade
 (address), 16702
 interest equalization tax act on foreign
 securities, extend—
 hearing, 14025
 law, 15198
 reports, 12191, 12198, 15234, 15406
 summary, 464
 Treasury Department recommendations,
 summary, 465
 maintaining strength of United States dol-
 lars in strong free world economy, 1968
 progress report, 2526
 1969 program, implications (remarks),
 6998
 policies—
 and actions to improve, reports, 3905
 review, hearings, 6568
 program, revised guidelines for banks and
 nonbank financial institutions, 4275,
 8237
 recent international financial and mone-
 tary developments, hearing, 13923
 recent trends, S247
 U.S. dollar at home and abroad (remarks),
 9825
 use of U.S.-owned excess foreign curren-
 cies, 7846
see also Finance.
- Balance sheets, *see* Finance.
- Balanced Economic Development Commis-
 sion, establish, report, 9431
- Balances, one component, magnetic, support
 and balance system for wind tunnel
 models, 10088
- Bald eagles, *see* Eagles.
- Baldwin, J. L., weekly weather and crop
 bulletin, national summary, 3600
- Ball, Lauren L., use of tungsten-184 as ther-
 mal flux monitor at high temperatures,
 7283
- Ball, Robert J., pathogenic properties of
Staphylococcus aureus as influenced by
 culture conditions, 9010
- Ball, Robert M., social security today, dis-
 cussion of some current issues in social
 security, 13439
- Ball bearings, *see* Bearings (machinery).
- Ballistic missiles, *see* Missiles.

- Ballistics :**
ballistic limit of aluminum plates determined by exploding foil gun technique, 1047
ballistic-range and shock-tube experiments, use of absolute radiometers, 16157
- Balloons :**
balloon type enclosures for thermal control of satellites, experimental and analytical investigation, 11458
jimsphere wind profiles as related to space vehicle design and operations, study, 1023
moored, Federal aviation regulations, 14186
natural-shaped logging balloon, operational test, 4318
ram-air inflated balloon recovery systems with peripheral aircoops, low-speed deployment, inflation and steady-descent characteristics, 13073
unmanned, Federal aviation regulations, 14186
- Ballston Spa, N.Y., railroad accident, report, 11095**
- Ballute decelerators, see Decelerators.**
- Balsam fir, see Fir.**
- Baltic Sea :**
lights and fog signals, list, change, 2336-8753, 17303
sailing directions, change, 2330, 6118, 13262
- Baltimore, Md. :**
area wage survey, 5901
Friendship International Airport, climatological summaries, 16490
Intrastate Air Quality Control Region, report for consultation, 10332
- Baltimore and Ohio RR., accidents, reports, 11086, 11090**
- Bambakidis, Gust, electrical resistivity as function of deuterium concentration in palladium, 2264**
- Bamberger, Eric N., fatigue life of 120-mm bore ball bearings at 600°F with fluorocarbon, polyphenyl ether, and synthetic paraffinic base lubricants, 1079**
- Bande, Karl, Benthic polychaetes from Puget Sound, Wash., with remarks on four other species, 2314**
- Banding, bats and bat banding, 7472, 10399**
- Bands (music) :**
District of Columbia Metropolitan Police Department Band, include members of Fire Department, etc., report, 12178
- Bangcawayan, Cristina, relief, 8014**
- Bank credit-card and check-credit plans, hearings, 459**
- Bank mergers, see Banks and banking.**
- Banking, see Banks and banking—Federal Intermediate credit banks.**
- Banking and Currency Committee, House :**
calendars, 3037, 3055
committee prints, 393, 395, 5369, 9336, 13921
hearings, 394, 3987, 5370, 6707, 9335, 9337-39, 10771-772, 12209-210, 13922-923, 15308-310
investigations and studies—
authorization, report, 6650
expenses, reports, 7879-80
housing, etc., authorization, report, 375
lumber and plywood prices, authorization, report, 6666
reports, 6659, 7924-28, 9313, 10718, 10747-748, 12195, 15297, 16778
subcommittee prints, 6706, 6708
subcommittee report, 392
summary of activities, report, 395
travel authorization, report, 375
- Banking and Currency Committee, Senate :**
activities, 1968, summary, 1736
committee prints, 1736, 4073, 15422
hearings, 459-460, 5430-31, 6778-79, 8052-56, 9448-50, 10888-890, 12287-288, 14017-19, 15418-421
- Banking and Currency Committee—Con.**
investigations and studies—
authorization, report, 5404
expenses, report, 5397
housing, Federal programs, etc.—
authorization, report, 4050
expenses, report, 4047
reports, 448, 4047, 5397-98, 6762, 6764-66, 9408-9, 9411, 9414, 9435, 10858, 10871, 12268, 13993-994, 15356-357, 15371, 15376, 15397, 16853
- Bankruptcy :**
laws, 1968, study, report, 12248
statistical tables, 8942
- Bankruptcy Laws of United States Commission, establish, report, 12248**
- Banks, Bruce A., fabrication process for glass coated electron bombardment ion thruster grids, 13107**
- Banks and banking :**
assets and liabilities, all banks—
semiannual report, 5639
semimonthly report, 2611
assets, liabilities, capital accounts, commercial and mutual savings banks, 631, 9757
back to Brandeis (remarks), 8236
balance of payments program, guidelines for banks and nonbank financial institutions, 8237
bank credit-card and check-credit plans, hearings, 459
bank debits and deposit turnover, 2619
bank holding company act amendments—
hearings, 10771
proposed changes and additions, text, 13921
reports, 12195, 16798
bank holding company act of 1956, amend—
hearings, 9335
proposed changes and additions, text, 13921
reports, 12195, 16798
bank lending practices—
and changes in monetary environment (remarks), 16998
quarterly survey of changes, 8246
bank operating statistics, 1968 compilation, 11056
bank prime loan rate (statement), 12649
banking and credit measures, weekly summary, 9826
banking and monetary statistics, 14225
banking community opening opportunities for minority groups at executive level (remarks), 14227
banking structure and banking markets (remarks), 5641
banking system and urban economic development (paper), 1885
central banking and availability of residential mortgage credit (remarks), 1886
code of Federal Regulations, 5623-24
commercial banks—
accounts and deposits, summary—
Atlanta district, 9758
Boston district, 9759
Chicago district, 9760
Columbus district, 9761
Dallas district, 9762
Kansas City district, 9763
Madison district, 9764
Memphis, Tenn., 9765
Minneapolis district, 9766
national summary, 9767
New York district, 9768
Philadelphia district, 9769
Richmond district, 9770
St. Louis district, 9772
San Francisco district, 9771
bad debt reserves, tax reform hearings, summary of testimony, 15340
tax treatment, tax reform press releases announcing tentative decisions, 13945

Banks and banking—Continued
 commercial banks—continued
 trust activities and emerging influence
 on American economy, staff report,
 392
 print additional copies, report, 379
 weekly series, revision, 14234
 condition report of large commercial
 banks, weekly, 3595
 New York and Chicago, 3596
 consolidated condition statement, 2611
 consumer installment credit, monthly re-
 port, 2699
 credit for purchasing or carrying—
 margin stocks, regulations, 12646, 15731
 registered stocks, regulations, 12647
 debits, demand deposits, and turnover
 (periodical), 2750
 debits to demand deposit accounts, etc.,
 6973
 deposits of country banks, index numbers,
 2763
 District of Columbia, installment loans,
 charge or deduct interest in advance—
 hearing, 12211
 report, 12183
 equal employment opportunity practices
 (statement), 2531
 Federal Reserve discount policy in per-
 spective (paper), 652
 Federal reserve par list, 5643
 cumulative supplement, 2874
 financial institutions and urban crisis,
 hearings, 460
 foreign banking procedures, legal and eco-
 nomic impact on United States, 3087
 foreign operations under Federal reserve
 act, regulations, 4278
 getting most out of banking system in
 the seventies (remarks), 653
 Government financial institutions and cen-
 tral banks as they relate to housing,
 investigation and study, authorization,
 report, 375
 Institutional investors, effect on securities
 market, study, extend time and in-
 crease authorization—
 hearing, 15325
 reports, 9435, 15285
 Insured banks—
 maximum rates of interest paid, regula-
 tions, extend—
 laws, 341, 16737
 report, 15376
 reports, 632, 15701
 market structure, public, convenience, and
 regulation of bank mergers (paper), 655
 mortgage credit, make more available to
 homebuyers during periods of tight
 money, hearings, 15419
 mutual savings banks, accounts and de-
 posits, summary, 9773
 mutual savings institutions, tax reform
 hearings, summary of testimony, 10813
 nonmember banks that maintain clearing
 accounts with Federal reserve banks,
 3458, 6977
 occupations, employment outlook, 4573
 on cutting corners (remarks), 12638
 operating banking offices, list, 9756
 supplements, 3221
 operating banks and branches, Dec. 31,
 1967-Dec. 31, 1968, changes, 9755
 prime interest rates, increase, investiga-
 tion, hearings, 12209
 role in truth in lending (remarks), 8250
 small and medium-sized banks, impact of
 computers, 630
 small business capital banks, establish,
 hearings, 14019
 tax reform (remarks), 16514
 time and savings deposits, changes, 8238,
 11134, 14226

Banks and banking—Continued
 unregistered bank holding companies,
 growth, problems, and prospects, staff
 report, 5369
 see also Banks for cooperatives—Federal
 Home Loan Bank System—Federal in-
 termediate credit banks—Federal re-
 serve member banks—Federal reserve
 system—National banks—also names
 of banks or places where located—also
 headings beginning Federal reserve.
 Banks for cooperatives:
 banks of Farm Credit System supervised
 by Farm Credit Administration, audit
 report, 4338, 5340
 Government capital, expedite retirement,
 hearing, 386
 Bara, J. P., controlling expansion of desic-
 cated clays during construction, 14829
 Baranof Island, Alaska, transplanting adult
 pink salmon to Sashin Creek, and survival
 of their progeny, 13822
 Baranowski, Frank P., remarks, Oct. 22,
 1968, 197
 Barao de Cocaís area, Brazil, geology and
 mineral resources, 745
 Baraona, Cosmo R., effects of nickel on per-
 formance of N on P silicon solar cells,
 13136
 Barbados:
 alien amateur radio operators, authoriza-
 tion to operate, agreement, 1450
 economic trends and their implications
 for United States, 8482
 plant quarantine import requirements,
 10464
 Barbers, employment outlook, 4479
 Barbiturates:
 let's talk about goofballs and pep pills,
 7377
 up and down drugs, amphetamines and
 barbiturates, 7430
 Barbour, Edmund, potential economic ben-
 efits from use of radiolotopes in flow
 measurements through high-head turbines
 and pumps, 10347
 Barduhn, Allen J., hydrate reaction kinetics
 and ice crystal growth rates, 799
 Barents, Sea, eastern, oceanographic ob-
 servations, 6697
 Barger, Raymond L.:
 development of sonic-boom signatures in
 stratified atmosphere, 1109
 investigation of class of bodies that gen-
 erate far-field sonic-boom shock strength
 and impulse independent of body length
 and volume, 8631
 Barger, W. R., modification of air/sea inter-
 face by artificial sea slicks, 2356
 Barghausen, Alfred F., predicting long-term
 operational parameters of high-frequency
 sky-wave telecommunication systems,
 11027
 Bari, Waguil M. A., relief, 16844
 Barite, minerals yearbook chapter, 14522
 Barium:
 Ba I and II, transition probabilities
 critically evaluated, 4769
 chemical release system, development,
 14586
 excited states of barium 136 and barium
 134, 1139
 Bark:
 characteristics indicate age and growth
 rate of yellow birch, 17020
 ponderosa pine, composting, effects of
 nitrogen addition and aeration, 5678
 tree, properties in relation to their agri-
 cultural utilization, 17050
 Bark canoes, see Canoes and canoeing.
 Barker, Fred, gold investigations in Pre-
 cambrian clastic and pelitic rocks, south-
 western Colorado and northern New
 Mexico, 14332

- Barlow, Esther, abstracts of personnel research reports, 16361
- Barlow, Frank D., Jr., food aid and agricultural development, 9645
- Barnacles, barnacle cement as dental restorative adhesive, study, 1185
- Barnard, J. Laurens:
families and genera of marine gammaridean Amphipoda, 8708
gammaridean Amphipoda of rocky intertidal of California, Monterey Bay to La Jolla, 8706
- Barnes, Donald J., research with primate equilibrium platform in radiation environment, 1545
- Barnes, Harry H., Jr., hydrologic effects of Canal 111 near Homestead, Fla., 14358
- Barnes, Ivan, chemical properties of ground water and their corrosion and encrustation effects on wells, 8352
- Barnes, J. A., table of bias functions, B_1 and B_2 , for variances based on finite samples of processes with power law spectral densities, 4765
- Barney, Richard J., interior Alaska wildfires, 17015
- Barnoski, R. L., summary of random vibration prediction procedures, 7236
- Barns:
building plans—
cattle, free-stall barn, 7604
cows, free-stall barn, 6388
arrangement for dairy system, 5056
housing only, 5055
8-stall horse, 47
elevated calf pens, 10489
free-stall barns, 44 and 48 feet wide, 8973
free-stall system for dairy cows, 6390
loose-housing system (covered stall) for 124 dairy cows, 6392
tie stalls for dairy calves, 16550
tobacco, 4- & 5-room, 48
sheep, housing and equipment, 13586
- Barnwell, Richard W., inviscid radiating shock layers about spheres traveling at hyperbolic speeds in air, 10157
- Baro, Cesar, relief, 4023
- Barometric pressure, *see* Atmospheric pressure.
- Baron, Norton:
elastic scattering of 21 MeV protons from nitrogen 14, oxygen 16, argon 40, nickel 58, and tin 116, 1138
scattering of 42-MeV (6.7-pJ) from even isotopes of cadmium, absolute cross sections, 2248
- Baron, Sheldon, human as an optimal controller and information processor, 1004
- Baroni, Lilliana G., relief, 4044
- Barosh, Patrick J., use of seismic intensity data to predict effects of earthquakes and underground nuclear explosions in various geologic settings, 14333
- Barr, Joseph W.:
remarks—
Dec. 2, 1968, 2530
Jan. 8, 1969, 2529
- Barr, Richard H.:
bond sales for public school purposes, 4162
current expenditures by local educational agencies for free public and secondary education, 4164
fall 1968 statistics of public schools, 9652
- Bar racks and quarters:
bachelor officer and enlisted quarters, policies, etc., for determining requirements, Defense Dept., GAO report, 5691
Navy and Marine Corps troop housing, design manual, changes, 2326
- Barrancas National Cemetery, general information, 3743
- Barrels, steel shipping, current industrial reports, 2732, 3856, 12006
- Barren County, Ky., soil survey report, 8864
- Barrett, Charles A., absorption rate sticking probabilities for oxygen on columbium and dilute columbium-zirconium alloys, 1105
- Barrett, James W.:
crop-tree thinning of ponderosa pine in Pacific Northwest, 12704
pruning of ponderosa pine, effect on growth, 4230
- Barrett, Mary A., oxygen consumption and hydrogen production by shrink-resistant grouts in confined places, 10067
- Barrie, Robert W., and wife, relief, 10702, 13839, 13982
- Barrington, Theodore, Panama Canal review, 3241
- Barro Colorado Island, amphibians and reptiles, with comments on faunal change and sampling, checklist, 13422
- Barry, Anthony J., specifications for selected hydraulic-powered roof supports, 16079
- Barry, S. Joseph, comparison of speech recordings in room air at ground level and in helium-oxygen mixture at simulated altitude, 5083
- Bars (metal, etc.):
bending of high strength reinforcing bars, literature review and survey of problem, 600
Federal item identification guides for supply cataloging, supplements, 2845
- Barse, Joseph R., Japan's food demand and 1985 grain import prospects, 10973
- Barsis, A. P., analysis of propagation measurements over irregular terrain in 76- to 9200-MHz range, 12569
- Barstow, Calif.:
floods, Mojave River, 12522
Marine Corps Supply Center area, water resources, 9930
- Barstow formation, Mud Hills, San Bernardino County, Calif., diagenesis of tuffs, 14351
- Bartek, L. R., CH-47A Chinook engine load sharing, 3785
- Bartelsmeyer, Ralph R., nomination, hearing, 8092
- Barthlome, Donald E., equipotential space-suit design concept and application to space-suit elbow joint, 10137
- Bartlett, Edward L., memorial services, 10675
- Bartlett, Joseph W.:
remarks—
Oct. 30, 1968, 1662
Dec. 5, 1968, 1663
- Bartlett, Lynn, Jr., labor law and practice in Peru, 4470
- Barton, William R.:
dimension stone, 938
stone, 986
- Barwick, Atwood S., Project FLOOD, report on data collected by Mine division 43, central Mediterranean Sea, May, 1965, 2235
- Basalt:
Columbia River Group of The Dalles area, Oreg. and Wash., effect of tectonic structure on occurrence of ground water, 11243
petrology of basalt cores from Midway Atoll, 15807
strength and deformation properties at various loading rates, 6907
- Baseom, Willard D.:
function of adhesion promoters in adhesive bonding, 17313
wettability of fluorocarbon and chlorocarbon trialkoxysilane films adsorbed on glass and metal surfaces, 7388
wetting of low-energy surfaces by non-aqueous solutions of dimethylsiloxane-containing or fluorocarbon containing surfactants, 10255

- Baseball (game):
6-cent professional baseball commemorative postage stamp (poster), 14768
- Bases (chemistry):
table for converting pH to hydrogen ion concentration $[H^+]$ over range 5.9, 9089
- Bashe, Robert, planetary film reconnaissance system, 11412
- Basic cold weather manual, change, 13655
- Basic Standards, Institute for, *see* Institute for Basic Standards.
- Basic studies of scale control, 15858
- Basin and Range province, trend-surface analysis and geomorphic implications, 7051
- Basler, J. A., quality of shallow ground water in Rincon and Mesilla Valleys, N. Mex. and Tex., 14354
- Bass, Charles A., NRL Microwave Space Research Facility, design and development of 60-ft. X-band antenna, 17314
- Bass, Michael, program to evaluate dye lasers as high power, pulsed, visible light sources, 11418
- Bass, juvenile largemouth, effects of silt turbidity on behavior, 7475
- Bassett, Calif., railroad accident, report, 11101
- Bastos, Alexander J., labor law and practice in Indonesia, 4469
- Bateman, Robert H., basic data on economy of Dominican Republic, 5289
- Bates, Carlos G., colossal generating units at third powerplant, Grand Coulee Dam, 14828
- Bates, Charles C., spacecraft oceanography, 13232
- Bates, Dorothy M., national program of institutional grants for science and science education, 4000
- Bates, George P., jr., address, Oct. 7-11, 1968, 11925
- Bates, Roger G., Electrochemical Analysis Section, summary of activities, July 1968-June 1969, 13161
- Bathing suits:
industry in Puerto Rico, data pertinent to review of minimum wage rates, 11775
womens bathing and swimming costume in United States, 4792
- Bathing units, field bath, facilities for troops, change, Army technical manual, 13663
- Batholiths, Glacier Park area, North Cascades, Wash., intrusion and eruption of late Cenozoic magmas, 14347
- Baths (chemistry):
Watts nickel electroplating bath, metabenzenedisulfonic acid as stress-reducing additive, evaluation, 16152
- Bathymetric charts, *see* Maps and charts.
- Bathymetry:
bathymetry of region (PORL-421-2), North of Hawaiian Ridge, 8187
International Indian Ocean Expedition, 1964, USC&GS ship Pioneer, data, 15151
marine magnetic and bathymetric profiles, Gulf of California, 13257
- Bathyteuthis, *see* Squids.
- Bathythermographs, BT profiles, free field rapid access format, 13261
- Bats:
and bat banding, 7472, 10399
diseases, general information, 10306
motion toward plane targets, and nature of changes of echolocative signals in process of target selection and recognition, USSR study, 15902
- Batteries, *see* Electric batteries—Storage batteries.
- Batteries (tests), *see* Aptitude tests.
- Batterton, Peter G., dynamic performance analysis of fuel-control valve for use in airbreathing engine research, 13112
- Battery Jasper, Fort Sumter National Monument, historical data, 10205
- Battling (textile fibers):
trade and tariff information, summaries, 10432
- Battlement Mesa, Colo., quaternary geology, 8354
- Battlement Mesa project, interrelationship with resources and management of Grand Mesa National Forest, water resource development impact survey, report, 12727
- Battles, *see* names of battles, or places where fought.
- Bauch, Fred E., fabrication and testing of composite materials aircraft wing section, 1588
- Baecom, Robert M.:
strain-rate sensitivity of 3 titanium-alloy sheet materials after prolonged exposure at 550°F (561°K), 2268
tensile behavior of boron-filament-reinforced epoxy rings and belts, 6008
- Bauer, Mary L., differentials in health characteristics by color, 16375
- Bauer, Paul, batteries for space power systems, 5988
- Baum, Bernard, study of methods to retard compaction of cellulose acetate membranes in reverse osmosis desalination, 15861
- Baumgartner, David C., new farm fencing declines, use of treated posts up, 17019
- Bauxite, report, quarterly, 2620
- Baxter County, Ark., community profile, 15539
- Baxtresser, Betty, non-urban patterns of land utilization, 1158
- Bayo, Francisco:
present value of DI benefits in current payment status, 16411
retirement experience of old-age beneficiaries, 1958-68, 16410
termination experience of disabled—child, benefits under OASDI, 1387
worker benefits under OASDI, 7457
- Bayous, *see* names of bayous.
- Bays, *see* names of bays.
- BCF, *see* Commercial Fisheries Bureau.
- BD series, 4610, 17158
- BDAC, *see* Drug Abuse Control Bureau.
- BDSA, *see* Business and Defense Services Administration.
- Be safe, be seen, let's shed some light on pedestrian safety, 14781
- Beach, Norman E., directory in plastics, knowledgeable Government personnel, 15532
- Beach erosion:
control projects in Hawaii, on-site inspection report, 4097
effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
- Beaches:
Alaska earthquake, 1964 effects on shore processes and beach morphology, 1967
time series from beach environment, 611
- Beacons, flashing, discrimination of increases in brightness, 1029
- Beads, as rocketsonde temperature sensors in mesosphere, theoretical comparison, 4688
- Beal, Thaddeus R., nomination, hearing, 5427
- Beall, Robert A., cold-mold are melting and casting, 929
- Beam, Jacob D., nomination, hearing, 5443
- Beam, Richard M., on phenomenon of thermoelectric instability (thermal flutter) of booms with open cross section, 11456

Beams:

- and arches, laminated production opportunities in Tennessee Valley, 1474
- radiation characteristic of aperture-limited dominant beam mode of lens-type beam waveguide, 3740
- steel, unloading, construction industry safe work guide, 17147
- vibrating, transverse shear deformation and rotatory inertia effects, approximate theory, 11407
- see also Electron beams—Ion beams—Laser beams—Molecular beams—Proton beams.
- Bean, B. Leonard, causes of variation in chemical analyses and physical tests of portland cement, 6037
- Bean, B. R., radio-physical studies of evaporation at Lake Hefner, 1966-67, 12571
- Bean, C. P., characterization of cellulose acetate membranes and ultrathin films for reverse osmosis, 15860
- Bean, Samuel L., atmospheric emissions from hydrochloric acid manufacturing processes, 17345
- Beans, dry, 9th research conference, report, 8947
- see also Soybeans.
- Bear River Migratory Bird Refuge, birds, list, 16448
- Bearings (machinery):
- anti-friction bearings—
- manufacturers' shipments and unfilled orders, 11972
- shipments, 1958-1967, patterns of industrial growth, 6485
- backup gas, design, 5984
- bearing, plain, Federal item identification guide, 15497
- bearing tests at 400° and 450°F, effect of oxygen concentration on advanced ester lubricant, 13082
- Brayton-cycle turbomachinery rolling-element bearings, 4666
- Brayton rotating unit on rolling-element bearings, design, 14578
- elastomeric bearings for UH-1 tail rotor assembly, improved concept, 5130
- Federal item identification guides for supply cataloging, supplements, 2842
- foil-bearing rotor support system, study, fabrication and testing, 2184
- gas bearings for small high-performance aircraft gas turbines, feasibility, 6458
- herringbone-grooved—
- air-lubricated journal bearings, experiments on steady-state characteristics, 13139
- gas-lubricated journal bearings, power loss, experiments, 10139
- high-performance turboalternator, 7230
- 120-mm bore ball bearings at 600° F with fluorocarbon, polyphenyl ether, and synthetic paraffinic base lubricants, fatigue life, 1079
- Rayleigh step journal bearing, incompletely lubricated, infinite-length solution, 1096
- rolling-element bearing life from 400 to 600 F, 4730
- rotating externally pressurized air journal bearings—
- attitude angle and air flow, experiments, 11452
- experiments, 10123
- stability analysis for unloaded externally pressurized gas-lubricated bearings with journal rotation, 1140
- synthetic paraffinic oils in short term bearing tests from 400° to 500° F, effect of oxygen concentration on performance of, 10111
- turboalternator gas bearing system, design, 7231
- water lubricated herringbone-groove journal bearings, stability experiments, 1103, 11475

Bearss, Edwin C.:

- Battery Jasper Fort Sumter National Monument, 10205
- battle of Sullivan's Island and capture of Fort Moultrie, 8715
- ferriboat, Ellis Island, transport to hope, 13186
- first two Fort Moultries, structural history, 8721
- general background study and historical base map, Assateague Island National Seashore, 13187
- Beasley, W. D., laboratory investigation of N-wave focusing, 13100
- Beasley Engineering Co., Inc., relief, 6594
- Beatty, Marvin E., III:
- annealing of 22-, 40-, and 158-MeV proton damage in n- and p-type silicon, 8622
- changes in minority-carrier lifetime in silicon and gallium arsenide resulting from irradiation with 22- and 40-MeV protons, 6000
- Beatty, Chester B., sequential study of desert flooding White Mountains of California and Nevada, 3760
- Beaumont, Tex., area wage survey 16014
- Beautification:
- highway beautification act of 1965 as amended, hearings, 13939
- highways, outdoor advertising, control, amend U.S. Code, hearings, 12321
- 6-cent beautification of America commemorative postage stamps (poster), 2391
- Beauty for America, bibliography, 2272
- Beauty operators, employment outlook, 4479
- Beauty shops, House of Representatives, funds for expenses, repayment to contingent fund, report, 376
- Beazley, Richard, numbers and characteristics of employees in institutions of higher education, 6884
- Beck, Christian, nuclear weapons effects, tests of blast type shelters, documentary compendium of test reports, 16620
- Beck, Donald E., seed production in southern Appalachian oak stands, 1925
- Beck, H., radiation field in air due to distributed gamma-ray sources in ground, 186
- Beck, Harold L., external radiation levels on Bikini Atoll, 3798
- Beck, Sherwin M., lithium-drifted silicon detectors as low-energy photon spectrometers, 7258
- Becker, Eugene M., nomination, hearing, 5427
- Becker, Herbert T., feasibility study of model tests on ship hull girders, 11658
- Becker, Robert E., differential resistance of mice at various time levels to lethality of rattlesnake venom *Crotalus atrox*, 84
- Becker, Robert M., multistage probability model of sample reduction in mineral industries, 973
- Becker County, Minn.:
- community action program, effectiveness and administration, GAO report, 12737
- work experience and training project, administration and effectiveness, GAO report, 11201
- Beckett, C. W., physics and chemistry journal of research, 3024
- Beckwith, Roy, C., large aspen tortrix, *Choristoneura conflictana* (Wlkr.) in interior Alaska, 679
- Bed forms generated in laboratory under an oscillatory flow, analytical and experimental study, 15648
- Bed springs, see Bedsprings—Mattresses.
- Bedard, Alfred J., jr. instructions for operation of radio data link system M-1, 1831
- Bedbugs, how to control them, 3643
- Beden, Brook basin, N.J., floods, extent and frequency, 15797

- Bedford, Mass. :
flood plain information, 9671
floods, how to avoid damage, 12484
- Beds, *see* Bedsprings—Mattresses.
- Bedsprings, current industrial reports, 2732, 13761
- Bee culture, classification definitions, 11573A
- Beef:
cured, dried, and smoked products USDA institutional meat purchase specifications, 15480
farm beef herd, selecting, feeding, etc., 5032
fresh, USDA institutional meat purchase specifications, 6815
slaughtering, cutting, and processing on farm, 13585
- Beef cattle *see* Cattle.
- Beeghly, H. P., nuclear standards for chemistry and technology, 7322
- Beer, importation of, code of Federal regulations, 11300
- Beers, Henry P., guide to archives of Government of Confederate States of America, 1159
- Bees:
Egyptian solitary wasps and bees and their associates, (Hymenoptera: Aculeata), life history notes, 13430
honey bees 7455
sound perception in the honeybee experimental proof, USSR study, 12916
visual stimuli as example of solution of abstract problems by bees, generalization, USSR study, 15990
- Beetles:
Arizona 5 spined ips, 11164
black turpentine beetle distinguishing attacks on southern pines, 7017
carpet, protecting woollens against, 7589
Douglas-fir, brood densities and infestation trends on New Mexico study area, 5677
genus *cryptocephalus* (Chrysomelidae: Coleoptera), in America north of Mexico, review, 4793
Japanese—
attractants, 5067
controlling, 5043
larval taxonomy of Troginae in North America, 2313
Mexican bean beetle, controlling, 1507
mountain pine beetles, female, incidence of sperm, 9857
rhyparus from Western Hemisphere (coleoptera, scarabacidae, aphodinae), 17373
this is Family Frontalis, your drying plines may have met her, 11197
watch for cereal leaf beetle, 5059
white fringed, control, 16544
see also names or classes of beetles.
- Begab, Michael J., effect of differences in curricula and experiences on social work student attitudes and knowledge about mental retardation, 6060
- Beggs, James M. nomination, hearings, 9452
- Beggs deformeter stress analysis of single barrel conduits, 1364
- Begnoche, Joseph E., and wife, relief, 16765
- Behavior:
and circulatory responses to x-irradiation delivered at 200 rads per minute to whole body and trunk only, 3710
behavioral science elementary teacher education program, final report, 8163
driver behavior, 16246
effects of silt turbidity on behavior of juvenile largemouth bass and green sunfish, 7475
learned, in monkey, effect of head versus trunk fisslon-spectrum radiation exposure, 1544
- Behavior—Continued
monkeys, behavioral and physiologic responses to supraethal doses of radiation, 1542
mouse, rat and dog behavior comparison of effects of psychotomimetic agents, USSR study, 4443
natural alluvial channels (series), 11247
predatory behavior of some shore fishes in Gulf of California, 2479
straight open channels with movable beds, 11247
white rats in gravity field, their suitability for sub-orbital studies, 2206
see also Vigilance.
- Behavioral Science Research Laboratory:
displays in tactical information processing, implications of BESRL research 13668
research publications, 1968, abstracts, 9052
technical research notes, 6446-49, 9052, 13664-667
technical research report, 13668
- Behrendt, Donald R., mathematical analysis of Fitzgerald apparatus, 7286
- Behrendt, John C., geophysical study in Grand Teton National Park and vicinity, Teton County, Wyo., 746
- Behrens, H. C., sea water corrosion test program, 9960
- Belfort, G., hydrodynamic studies for electroanalysis, 15856
- Belgium:
Ambassador, nomination of John S. D. Eisenhower, hearing, 5443
background notes, 2481
consular convention, text, etc., 15353
economic trends and their implications for United States, 14423
foreign economic trends and their implications for United States, 5790
foreign trade regulations, 5288
mutual defense assistance, agreement, 14929
selling in Belgium, 15171
- Belk, William F., relative resistance of gerbils and rats to acute cobalt-60 irradiation, 10533
- Belknap, George E., papers in Library of Congress, register, 16037
- Belknap, Reginald R., papers in Library of Congress, register, 16037
- Belknap County, N. H., soil survey report, 6240
- Bell, F. Howard, eastern Pacific halibut fishery, 1888-1966, 13820
- Belle Fountain Ditch:
and tributaries, Mo., flood control, engineers report—
departmental edition, 4212
document edition, 3947
- Bellmard, Adel L., or heirs, relief, 9393
- Bellows Falls, Vt., water resources appraisal for hydroelectric licensing, 8211
- Belltown Run, flood plain information, 9670
- Beloit, Wis. :
flood plain information, 12475
Rock River flooding, how to avoid damage, 12549
- Belorussian Soviet Socialist Republic:
Academy of Sciences, history and activities, outline, 15981
Communist Party structure outlined, 834
isotopes conference, 859
- Belt Railway, emergency board report, 4191
- Belts, machinery belts and clothing, trade and tariff information, summaries, 10432
see also Safety belts.
- Beltz, Roy C., pole and piling production in Midsouth, 1939
- Ben Hill County, Ga., soil survey report, 7465
- Benadryl, glucose tolerance in dogs exposed to altitude and drug administration, 94
- Bending moments, *see* Moments.

- Bendsten, B. A., house foundation of treated wood after 30 years' service, 688
- Benedict, Manson, effect of uranium-236 and neptunium-237 on value of uranium used as fuel for thermal power reactors, 189
- Beneficiation:
ferrochromium by molten salt electrolysis, 4647
titanium chlorination residues, 4642
- Benefit-cost applications in urban renewal, summary of feasibility study, 5750
- Benefit series service, unemployment insurance report, 2623, 14954
- Benefits for veterans residing overseas, 16825
- Bengtson, George W., growth and flowering clones of slash pine under intensive culture, early results, 11187
- Benjamin, Jesse, professional, administrative, and technical pay in New York, 11355
- Benjamin, William, specifications for comprehensive undergraduate and in-service teacher education program for elementary teachers, 588
- Bennett, Burton G., experimental and theoretical studies of transport of gamma rays through slab shields, 13692
- Bennett, Frank A., design difficulties in stand density studies, 11179
- Bennett, Marianne K., effect of adsorbed monomolecular films on evaporation of volatile organic liquids, 16317
- Benson, James S., Georgia Radium Management Project, 11613
- Benson, Melvin O., continuing Near East Crisis, 3989
- Benson (U.S.):
loan, extension, agreement with Republic of China, 14924
- Bentley, Helen D.:
remarks—
Oct. 16, 1969, 15715
Oct. 17, 1969, 15716
- Bentleyville, Pa.:
flood plain information, 12472
floods, how to avoid damage, 12485
- Benton County, Ark., community profile, 15540
- Benton County, Tenn., appraisal of potentials for outdoor recreational development, 17385
- Benton Lake National Wildlife Refuge, birds, list, 6250
- Benzene, benzenoid chemicals and products, imports, 11738
- Benzenedisulfonic acid, meta-benzenedisulfonic acid stress-reducing additive in Watts nickel electroplating bath, evaluation, 16152
- Benzenoid chemicals, *see* Benzene.
- Berenda Slough, Chowchilla River, channel capacity of reaches, in Madera County, Calif., 1963
- Berg, Dennis W., effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
- Berg, Otto E., Pioneer S cosmic dust experiment, 13084
- Bergall (U.S.):
loan, extension, agreement with Turkey, 6284
- Bergen, James D.:
atmospheric humidity measurement near snow surface, 1924
observations on temperature profiles of mountain snow cover, 1918
- Berger, M. J., tables of response functions for silicon electron detectors, 14673
- Berggren equation, *see* Equations.
- Bering Sea, northern, USCGC Northwind oceanographic cruise, report, 12063
- Bering Strait, USCGC Northwind oceanographic cruise, report, 12063
- Berkeley, Calif., riots, looting, and burning, subversive influences, hearings, 7977
- Berkeley Hills, rocks, upper Cretaceous and lower Tertiary, 5699
- Berkowitz, Donald, gastroenterology abstracts and citations, 2933
- Berlin, Germany, western, economic statistics, handbook, 2951
- Berman, Martin, angular positions of X-ray emission lines of elements for common analyzing crystals, 4621
- Bermuda:
background notes, 6260
economy of Bermuda Islands, basic data, 6540
- Bernardini, Albert T., glucose tolerance in dogs exposed to altitude and drug administration, diphenhydramine, 94
- Bernhardt, Audrey, cases decided in Court of Chancery, 14073
- Bernstein, M. I., hand-printed input for on-line systems, 7228
- Bernstock, William M., bulletin of prosthetics research, 8930
- Berrier, Bobby L.:
effect of jet velocity and axial location of nozzle exit on performance of twin-jet afterbody model, 16161
effect of plug and shroud geometry variables on plug-nozzle performance at transonic speeds, 7275
transonic aerodynamic characteristics of powered models of several Apollo launch-escape vehicle configurations, 1075
- Berry, Brewton, education of American Indians, survey of literature, 8082
- Berry, Brian J. L., metropolitan area definition, re-evaluation of concept and statistical practice, 12023
- Berry, Charles R., pitch canker of southern pines, 11162
- Berry, Frederick H., decay in upland oak stands of Kentucky, 15773
- Berson, Minnie, early childhood education, 577
- Bert, Charles W.:
behavior of fiber-reinforced plastic laminates under uniaxial, biaxial, and shear loadings, 6457
vibration evaluation of sandwich conical shells with fiber-reinforced composite facings, 6456
- Bertozi, W., medium energy nuclear physics with electron linear accelerators, 1605
- Bertsch, A. W., corrosion resistance of some common metals to concentrated and 6% solutions of light water fire-extinguishing agent, 17315
- Beryllium:
alloy tubing, Be-3S Al, thin-wall, mechanical properties and column behavior, 8629
deposits of Lake George (or Badger Flats) beryllium area, Park and Jefferson Counties, Colo., 12781
exposure to workmen's compensation claims arising, parallel study, 206
floatation characteristics of some beryllium minerals and associated gangue minerals, 976
Lake George area, Colo., distribution, 738
liquid, viscosity, USSR study, 15941
minerals yearbook chapter, 14523
thin-wall tubing, mechanical properties and column behavior, 1069
tubular, and Be-3SA1 alloy truss-type structures, design fabrication, and tests, 11469
- BES series, 593, 5564, 12444
- BESRL, *see* Behavioral Science Research Laboratory.
- Bess, Leon, suboptimal approximation to Kalman filter, 7266
- Beta-aminoisobutyrate acid excretion in macaca mulatta primates, 10528
- Beta decay, excited states of xenon-130 populated by beta decay, 13110

Beta particles, gross beta activity at selected gaging stations, 14371
 Bethlehem, Pa., area wage survey, 4592, 17154
 Bethlehem Atlantic Shipyards, wage chronology, 2112
 Bethyloidea, Bredin-Archbold-Smithsonian biological survey of Dominica, Bethyloidea (Hymenoptera), 13417
 Bettinger, Paula J., tagged arithmetic, 14619
 Bettner, James L., experimental investigation in annular cascade sector of highly loaded turbine stator blading, 2198, 8598, 10075, 16137
 Benter, John H., Webb-Pomerene export trade associations and wood products industries or can Webb-Pomerene act help U.S. sell more processed wool to Japan? 12713
 Bevans, Charles I., treaties and other international agreements of United States, 1776-1949, compilation, 13489
 Beverage, Joseph P., estuarine studies in upper Grays Harbor, Wash., 11252
 Bhutan, capsule facts for Armed Forces, 130
 BI series, 1500
 Blafra:
 Nigerian-Blafra relief situation, hearing, 467
 special factfinding mission, report, 7954
 Biaxial stress, see Strains and stresses.
 Biazzo, Lillian, relief, 10830
 Bibliography:
 adult basic education, 4160
 aerospace medicine and bioastronautics, 860
 aerospace medicine and biology, 2558
 AFCLRL publications, 13634-635
 Africa, 11910
 agricultural utilization of sewage effluent and sludge, 4287
 agriculture, 2624
 Air Force Academy Library series, 1520
 Air Force, 1962, scientific research, 3674
 air pollution—
 publications, 11603
 translations, 13355
 air traffic and airport congestion, 8194
 Air University Library series, 11907-915, 15022
 Aircraft Development Service reports, 11924
 Alaska cedar, 8308
 Alcott, Louisa May, early writings, novels, etc., 11363
 alpha particles, 7206
 American history—
 departmental edition, 15028
 document edition, 15217
 American Revolution, 2125
 Antarctic, 8565
 antennas, near earth and buried, USSR study, 2059
 anthropology, 1520
 anti-depressant drug studies, 8797
 arms control & disarmament (periodical), 2603
 art of Eskimo and northwest coast Indian, 8411
 art of war, selected references, 11913
 artificial kidney (periodical), 2608
 Asia—
 south, selected references, 11914-915
 southeastern, selected references—
 excluding Vietnam, 11908
 Vietnam, 11909
 atomic energy program, 192
 beauty for America, 2272
 bibliographic list, Federal Aviation Agency, 623, 8194, 9736, 11036
 biomedical computer applications, 10197
 budworms, spruce, western, and 2-year-cycle, 5679
 business publications, BDSA, 11973
 cancer, 4893

Bibliography—Continued
 career development, 14379
 Census Bureau, methodological research, 6492
 chemical and petroleum plants, investment and operating costs, 13011
 circadian rhythms, 623
 civil rights, we hold these truths, 13515
 Civil War Centennial publications, 6525
 climate of—
 Central American countries, 16568
 Nepal, 6224
 college graduate and national security, utilization of manpower by Armed services, 1766
 collision avoidance, 4231
 community health service, publications catalog, 13334
 community mental health centers, 16338
 computer literature, 2289
 consumer education, 8776
 copyright, 521, 14069
 counselor's guide to manpower information, 895
 crime and delinquency, international bibliography (periodical), 2718
 cryogenic publications and reports, 2721
 dairy marketing economics, research publications, 8157
 Detroit, Mich., annotated list of maps, 7192
 disposal of brine effluents from inland desalting plants, 14407
 distribution cost analysis, 4924
 drug dependence and abuse, 4872
 early childhood, 14378
 early childhood education, selected references in field, 6854
 economic development of American Indians and Eskimos, 1930-1967, 8406
 education, literature of profession, 10977
 endocarditis, 13342
 equal employment opportunity, 9736
 equal opportunity in housing, research, 11268
 executive leadership in public service, 8929
 Europe, western, 11912
 family planning, 1966-68, international, 16350
 farm management, etc., 6171
 fibrinolysis, thrombolysis, and blood clotting, 1968 annual compilation, 8685
 flood damage prevention, indexed, 16497
 food makes the difference, 16532
 foreign countries, statistical publications, 2908
 Forest Service outdoor recreation research publication, supplement, 9845
 Forest Service range and wildlife habitat publications, 7007
 geology and geophysics for Gulf of Mexico, 13249
 Ghana, guide to official publications, 1872-1968, 14483
 hardware retailing, 1379
 helium, 7206
 helminths of waterfowl (Anatidae), 14887
 high temperature chemistry and physics of materials, 6049, 10176, 16226
 highway safety literature—
 acquisitions, 2359
 compilation, 14681
 index, 16240
 highways and their environmental considerations, 14815
 highways, new developments in design, etc., newsbriefs, 14816
 hijacking, 11636
 historic books and manuscripts concerning horticulture and forestry in collection of National Agricultural Library, 1157
 housing and planning references (periodical), 2963

Bibliography—Continued

housing, building and planning, overseas missions, bibliography, 15838
 Human Factors Laboratory reports, 7378
 Hungarians in Rumania and Transylvania, bibliographical list of publications in Hungarian and West European languages, 13860
 hydrology and sedimentation, 13534
 hydrology, 1964, United States and Canada, 7060
 India, climatological, 13620
 Indian and Eskimo folktales, 8412
 Indian Arts and Crafts Board, 8411-12
 inservice training—
 allied professionals and nonprofessionals in community mental health, 8793
 key professionals in community mental health, 8794
 mental health for staff in residential institutions, 8795
 juvenile delinquency prevention, 1631
 labor mobility, 8536
 land utilization, non-urban patterns, 1158
 landmarks in science, 14520
 language development, research completed, etc., 10975
 Latin America, 11911
 and Caribbean, 13660
 legal, juvenile and family courts, 9172
 listing of Aircraft Development Service reports, 6426
 longleaf pine, 4331
 management, literature survey, 13064
 manpower and employment statistics publications of Bureau of Labor Statistics, 8558
 manpower and operations research studies of U.S. Employment Service and State employment services 1958-67, 593
 manpower projections for North Central region, 899
 Marine Corps' concept of close air support, 5924, 16044
 Marine Corps historical reference bibliographies, 5924
 marine mammals, 5299
 marine mammals of world, 5306
 marketing information guide, 3106
 marketing new products, selections from Marketing information guide, 16640
 marketing of livestock, meat, and meat products, 10165
 marketing to low-income consumers, 3826
 marriage and divorce, statistical studies, 16352
 measurement of carrier lifetime in semiconductor, 1181
 medical and dental radiation protection, regulations, standards, and guides, 13344
 medical research and development articles, 9062
 medical reviews, 3165-66, 7349
 medicine, history, 4791
 medicolegal serials, 1736-1967, international, list, 13180
 mental retardation, 8387
 methylpentynol, 10394
 Mexican heritage in United States, guide to materials relating to persons of, 8408
 microwaves, ultraviolet radiation, and radiation from lasers and television receivers, regulations, standards, and guides, 8803
 Middle East, tricontinental hub, bibliographic survey, 5120
 military history, selected, annotated listing of reference sources in U.S. Military Academy Library, 14519
 mobile homes and parks, 16401
 monitors of U.S. Navy, 1861-1937, 6306
 Naval Aerospace Medical Institute reports, 16055
 naval history, 16307

Bibliography—Continued

Navy training publications for advancement, list, 11563
 neurosurgery and neurologic sciences, 6333
 1968-69 national collegiate debate topic, executive control of U.S. foreign policy should be significantly curtailed, 356
 North American geology, 5698
 nuclear explosives, civil, industrial, and scientific uses, 7702
 nuclear medicine, 11961
 nuclear science in mainland China, 911
 optical atomic spectra analyses, 6048, 11520, 16225
 outdoor recreation literature, index of selected material, 6155
 Pakistan, 11907
 personnel literature, 3248
 personnel management programs, planning and evaluation, Army pamphlet, 16593
 photographic dealers and studios, business and technical information, 2448
 the poor, 8975
 poor people at work, 10363
 populus species with special emphasis on *P. tremuloides*, 675
 program analysis techniques, supplement, 9091
 psychological and social aspects of human tissue transplantation, 4892, 11631
 public health series, 4893, 11632, 13362
 reactor safety, 13715
 real estate business, 4925
 regeneration of white spruce with reference to interior Alaska, 5775
 regional medical programs, 2429, 10335
 research and development, congressional concern, 471, 14035
 research reports, High Speed Ground Transportation Office and Northeast Corridor Transportation Project, 14223
 retailing, 11660
 rheumatic fever, glomerulonephritis, and streptococcal infections, 11632
 Roosevelt, Franklin D., era, periodical and dissertation literature, 10166
 Russian radioecology, bibliography of Soviet publications with citations of English translations and abstracts, 3808
 salvage archeology in United States, 2449
 science and society, 3809
 science facilities, 17295
 scrapie, 10189
 small business, 1378-79, 2448, 4924-25, 11660, 14856, 16401
 smoking and health, 13362
 smoking and health bibliographical bulletin, 6206
 sociology and anthropology, 1520
 sources of information on labor in Japan, 4471
 southern range management, 8316
 stereotaxic brain surgery techniques, 1485
 storm water runoff, urban, 12663
 suicide and suicide prevention, 14782
 superconducting devices, 2290
 systems approach to management, 13065
 tall stacks, various atmospheric phenomena and related aspects, 1349
 techniques of stereotaxic neurosurgery, 7554
 terrestrial impact structures, 9890
 Thailand, climatological, 9004
 this changing world, reading guide for the General Sessions, 7491
 tillage and traction, 11788
 timber measurement problems in Douglas-fir region, 4329
 toxicity, 3502
 training methodology—
 audiovisual theory, aids, and equipment, 8821
 background theory and research, 8818
 instructional methods and techniques, 8820

Bibliography—Continued

- training methodology—continued
 planning and administration, 8819
 training retail salespeople, 1378
 U.S. Government research and development reports, 3536
 UFO's and related subjects, 8995
 urban outlook, films, etc., 12816
 USSR, strategic survey, 15048
 variety stores, 14856
 venereal disease, 2734
 Veterans Administration series, 1485,
 6333, 7554, 8929, 13515
 Vietnam, 4426
 volunteer services in mental health, 16379
 war, 15022
 WB/BC series, 4224
 weather and architecture, 11022
 what's new on smoking in print, 6215
 wildlife, information leaflets, 10403
 wood chemistry, 670
see also names of departments, etc., issuing
 lists of publications.
- Bicycles, trail bike trips, Wenatchee National
 Forest, general information, 12722
 Bidding, *see* Government contracts.
- Bienevski, Carl L.:
 mineral industry of Colorado, 2139
 pumice, 17191
- Bienstock, Herbert, address, Mar. 28, 1969,
 14462
- Big Bend National Park:
 general information, 6073
 historic resources management plan, 13188
- Big Creek:
 Cuyahoga County, Ohio, floods, keep
 damages low by building high, 12496
 flood plain information, 9672
 Big game, *see* Game and game birds.
 Big-game habitat, 14250
 Big Hole National Battlefield, general infor-
 mation, 8716
 Big Muddy River, Rend Lake Reservoir spill-
 way, hydraulic model investigation, 11017
 Big Pelican Cay, botanical description, 13731
 Big pond, Federal jobs for engineers, physical
 scientists, mathematicians, 16689
- Big Walnut Creek:
 flood plain information, 12450
 floods in Columbus, Ohio, metropolitan
 area, how to avoid damage, 12524
 Biggs, Archie A., fireplaces and chimneys, 33
 Bighorn Canyon, archeology, 8852
 Bighorn Canyon National Recreation Area,
 general information, 7356
 Birkeman, J. J., foam fractionation of
 aqueous solutions, 2008
 Bikini Atoll, external radiation levels, May
 1967, survey, 3798
 Bilello, Michael A., surface measurements of
 snow and ice for correlation with air-
 craft and satellite observations, 10542
 Bilbin, A., discusses medical ethics, USSR
 study, 5836
 Bilingualism, *see* Language and languages.
 Biller, James C., housing and urban develop-
 ment notes, 2964
 Billfishes of central Pacific Ocean, 10665
 Bills (congressional):
 armed services, hearings on miscellaneous
 bills, 15304-307, 16814-815
 digest, 2768
 history, 2688
 Bilse, Yilmaz, relief, 13957
 Bilse, Zella, relief, 13958
 Binary digits, character information coded
 in 6, 7, and 8 bits, some evolving con-
 ventions and standards, 10179
 Binder device releasably engaging aperture
 or notch of sheet, 7394
 Bingham, Edgar, environmental conditions
 relating to harmful insects of mainland
 southeast Asia, 13657
 Bingham County, Idaho, records of observa-
 tion wells and water-level fluctuations in
 Aberdeen-Springfield area, 8357, 14355
 Binghamton, N.Y., area wage survey, 2115
 Binkley, Virgil W.:
 operational test on natural-shaped logging
 balloon, 4318
 planning single-span skylines, 693
 Binocular fusion time in sleep-deprived sub-
 jects, 10583
 Bioastronautics:
 air bearing systems for grossly mismatched
 surfaces, 1546
 bibliography, 860
 determination of urinary testosterone uti-
 lizing column and gas-liquid chroma-
 tography, 3714
 physiologic research on human tumbling
 6417
 Biochemistry:
 determination of urinary testosterone uti-
 lizing column and gas-liquid chroma-
 tography, 3714
 effects of 6-month exposure of small ani-
 mals to helium-oxygen atmosphere,
 17197
 Biochemists, employment outlook, 4537
 Biocybernetic modeling, USSR, 5861
 Biodynamics, air bearing systems for grossly
 mismatched surfaces, 1546
see also Physiology.
 Bioengineering, impact, on engineering edu-
 cation, conference, proceedings, 185
see also Biomedical engineering.
 Biofouling, *see* Fouling organisms.
 Biogeochemistry:
 application to mineral prospecting, survey,
 1042
 Delta-Mendota Canal, Central Valley proj-
 ect, Calif., 16393
 Biography, State Department biographic
 register, 13470
see also subjects of biographical sketches.
 Biohazard control and containment in onco-
 genic virus research, 13168
 Bioinstrumentation, systems, NASA contri-
 butions, survey, 4698
 Biological Laboratory, Galveston, Tex.:
 general information, 3920
 report, 3917
 Biological Laboratory, Honolulu, Hawaii,
 general information, 5300
 Biological Laboratory, Oxford, Md., general
 information, 16713
 Biological Laboratory, St. Petersburg Beach,
 Fla.:
 contribution, 13817
 reports, 9225, 13817
 Biological Laboratory, Woods Hole, Mass.,
 general information, 10666
 Biological laboratory technicians, examina-
 tion announcement, 15143
 Biological physics:
 biophysical studies of microbial cell
 walls—
 electrophoresis, apparatus and explora-
 tory experiments, 10252
 isolated cell walls preparation, 1257
 research project, Radiological Research
 Laboratory, Columbia University, an-
 nual report, 13700
 Biological products:
 produced and destroyed in licensed estab-
 lishments, lists, 5024, 13557
 regulations, Public Health Service, 4873
see also Drugs.
 Biological sciences, *see* Biology.
 Biological warfare:
 agents of bacteriological and chemical wel-
 fare, USSR study, 15911
 chemical and biological warfare, hearing,
 10897
 chemical and biological weapons, possible
 approaches for lessening threat and
 danger, 9479
 Biology:
 administration and management of biol-
 ogy and medicine research program,
 Atomic Energy Commission, GAO re-
 port, 7037

Biology—Continued

- aerospace medicine and biology, bibliography, 2558
- Aral asp. *Aspius aspius* bholides, biological data, USSR study, 15906
- associate training programs, NIH, 4775
- biological effects—
 - high-frequency ultrasound, USSR study, 5816
 - ionizing radiation, late somatic effects, 3812
- biological evaluation of spruce budworm on Superior National Forest, 7006
- biological factors in domestic rodent control, 8800
- biological, legal aspects of medical science, USSR articles, 840
- biological sciences, professional careers with Federal Government, 16691
- biology of hard tissue, conference, proceedings, 1038
- Bredin-Archbold-Smithsonian biological survey of Dominica, 1208, 13417-418, 13428, 17374
- bulletin of experimental biology and medicine (USSR periodical), translations, 15923
- computer techniques in biological research, USSR study, 12888
- crayfish, and its use for control of aquatic weeds in trout lakes, 6258, 13467
- interaction in biological systems, USSR study, 15947
- International Biological Programs, support of Congress, etc.—
 - hearings, 9370
 - report, 10720
- man's tolerance to direct effects of air blasts, estimate, 17123
- mental retardation, its biological factors, hope through research, 4882
- modeling in biology and medicine, USSR study, 12928
- molecular, and agriculture, potential for future research, report of Western Experiment Station Collaborators Conference, 7570
- nutrition and developmental biology assessment of present status, etc., 17280
- program, ABC authorizing legislation, 1970, hearings, 9243
- radioactive isotopes, biological effects, 1594
- research and development in progress, 193
- Sanger population in Lewis and Clark Lake, biological characteristics, 7475
- systematics and zoogeography of world-wide bathypelagic squid *Bathyteuthis* (Cephalopoda: Oegopsida), 13181
- Tadzhik Academy of Sciences biology department, 1967 report, 5873
- technical assistant, examination announcement, 16694
- white crappie, Lewis and Clark Lake, 7475
see also Space biology.

Biomechanics of writing, 12918

Biomedical engineering:

- development and production report, 14683
- nuclear energy field developments, 9078
- research training programs, compendium, 17273
- status of research, 1968 report, 11535
- Biomedical Engineering Resource Corporation, report, 14683

Biomedicine:

- biodata, simple technique for automatic computer editing, 11479
- biomedical applications of commercial capacitance transducer, 5193
- biomedical communications, National Library of Medicine, post-graduate library associate training program, curriculum, qualifications, etc., 17284
- biomedical computer applications bibliography, 10197

Biomedicine—Continued

- biomedical information system, computer based, logic foundation and techniques, 5133
- biomedical research and educational resources, full-time medical school faculty, 1967 fiscal year, 7347
- biomedical research conducted in USSR during 1968 and early 1969 under space research program, 12939
- biomedical research manpower, for the eighties, 6066
- biomedical science—
 - East European abstracts, 2776
 - USSR abstracts, 3562
- perspectives on human deprivation, biological, psychological, and sociological influences, 14693
- Biometry:
 - notes on biometry in medical research, 1488, 11765
 - status of research, 4788
- Bionics:
 - blonic aspects of self-organization, USSR study, 7137
 - philosophical basis for subject matter, USSR study, 15973
 - USSR study, 5811
 - problems of bionics, 15901
- Biophysics, Soviet research, 5817
see also Biological physics.
- Biosatellites, *see* Satellites.
- Blota, fresh-water, effects of mineralized artesian waters in Taylor Slough, Everglades National Park, Fla. 15795
- Biotechnology:
 - and habitability spacebiology problems, 11503
 - laboratory for manned earth orbiting missions—
 - study, results, recommendations, and requirements, 14580
 - summary of individual experiments requirements, 14581
- Biotelemetry, gives medical data on space fliers, USSR study, 5863
- Diphenyl, *see* Diphenyl.
- Birch:
 - paper, northeast silvicultural guide, 17045
 - regeneration, stochastic model, 678
 - yellow—
 - bark characteristics indicate age and growth rate, 17020
 - rates of value increase in New England, 5767
 - regeneration, influence of light, moisture and seedbed, 11184
- Bird, John D:
 - Investigation of optimum design and flight of rockets, 4753
 - tuft-grid surveys at low speeds for delta wings, 6006
- Bird houses, homes for birds, building, location, etc., 8410
- Birds:
 - Bear River Migratory Bird Refuge, list, 16448
 - Benton Lake National Wildlife Refuge, list, 6250
 - birds of public health significance plethorial keys, 14799
 - Bitter Lake National Wildlife Refuge, list, 4947
 - breeding survey, 16457
 - Cold Springs National Wildlife Refuge, list, 6252
 - Comoros, observed on behalf of Smithsonian Institution, 17371
 - Deer Flat National Wildlife Refuge, list, 16449
 - DeSoto National Wildlife Refuge, list, 6251
 - Francis Marion National Forest list, 5664
 - homes, building, location, etc., 8410

Birds—Continued
 Kirwin National Wildlife Refuge, list, 13454
 Merced National Wildlife Refuge, list, 2469
 Minidoka National Wildlife Refuge, lists, 1417, 13456
 mysterious migration, USSR study, 12914
 National Bison Range, list, 13453
 National Wildlife Refuge, lists, 1416
 non-game, ways to attract, 14881
 ornithology of Marshal and Gilbert Islands, 10361
 protected by Federal law, list, 14888
 Santa Ana National Wildlife Refuge, list, 16447
 selective avian salt glands, salt transport mechanisms, 9970
 Sherburne National Wildlife Refuge, list, 1418
 southern Appalachians, list, 5665
 Tennessee National Wildlife Refuge, list, 8870
 Union Slough National Wildlife Refuge, list, 13455
 Willapa National Wildlife Refuge, list, 2470
see also Water birds—*also* names of birds.
 Birmingham, Ala.:
 area wage survey, 11349
 flood plain information, 12465
 floods, how to avoid damage, 12499
 International Airport, climatological summaries, 16491
 Birth:
 children born to women, changes in average number, 1960-69, advance data, 5213
 how you may save time proving your age and other facts, 8807
 natality, vital statistics of U.S., 13382
 nativity, etc., on death certificate and matching census record, comparability, 10336
 records, where to write, 1357
 United States citizens abroad, 1965 reports, 1330
 weight, variations, legitimate live births, 1963, United States, 6212
 Birth certificates, coding, congenital malformations classification, for use in National Cleft Lip and Palate Intelligence Service, 4874
 Birth control:
 family planning—
 Indian Health Service program, computerized projected analysis, 10297
 international, 1966-68, bibliography, 16350
 methods, if you're not ready for another baby, 14121
 nationwide opportunities for action, 759
 OEO programs, 6851
 population and family planning, 6165
 Biscay, Bay of, sailing directions, change, 1240
 Biscayne Bay, south, Dade County, Fla., tidal relations, 8362
 Biscayne National Monument, establish, hearings, 5450
 Bishop, Allan R., effect of electrothermal instabilities on Brayton and Rankine-cycle magnetohydrodynamic space-power generation systems, 16195
 Bishop, H. K., in-situ formation of regenerative cellulose acetate membranes on porous tubular supports, 17096
 Bismuth:
 metal, mineral industry survey, quarterly, 2626
 minerals yearbook chapter, 14524
 Bits (digits), *see* Binary digits.
 Bitter Lake National Wildlife Refuge, birds, list, 4947

Bittker, David A.:
 nonequilibrium calculations of methane-fluorine-oxygen and butane-1-fluorine-oxygen rocket performance, 4721
 theoretical nonequilibrium performance of oxygen-difluoride-diborane rocket propellant, 4722
 Bituminous coal, *see* Coal—Coal mines and mining.
 Bixby, Lenore E., some facts about employment of widowed mothers, 6417
 Bixler, H. J., final report on control of concentration polarization in reverse osmosis desalination of water, 15863
 Bixler, Richard C., vocational live-in, 10991
 Bjornson, Bayard P., control of domestic rats and mice, 14784
 Bjungstad, Ardell J., poor returns from Ozark woodland grazing, 4306
 Black, William R., loading patterns for ventilated rail and truck shipments of dry onions, 7
 Black capitalism in the ghetto, 4194
 Black Hawk County, Iowa:
 flood plain information, 9665
 flooding, how to avoid damage, 12446
 Black Hawk Creek:
 flood plain information, 9665
 flooding, how to avoid damage, 12446
 Black Hills:
 east flank, Niobrara formation, phosphate nodules at base of, stratigraphic significance and petrology, 4365
 ponderosa pine for veneer and plywood, preliminary evaluation of small-diameter trees, 5669
 Black militants and police, shoot-out in Cleveland, 13326
 Black revolution and economic future of Negroes in United States (address), 11133
 Black River and Valley:
 flood plain information, 4202
 floods in Pocahontas, Ark., how to avoid damage, 4209
 Black Sea:
 dolphins (*Tursiops truncatus*), some distinctions of higher nervous activity, USSR study, 15927
 lights and fog signals, list, changes, 2335, 8751, 16303
 Black turpentine beetles, *see* Beetles.
 Blackadar, Alfred K., investigation of turbulent wind field below 150M altitude at Eastern Test Range, 14582
 Blackbody:
 simple high-precision copper-point blackbody and furnace, construction and operation, 8672
 thermal radiation heat transfer, errata, 14595
 Blacksmiths, employment outlook, 4510
 Blackstone River, pollution of interstate waters, conference proceedings, 1895
 Blackwell, James A., Jr.:
 finite-step method for calculation of theoretical load distribution for arbitrary lifting-surface arrangements at subsonic speeds, 13114
 preliminary study of effects of Reynolds number and boundary layer transition location on shock induced separation, 4733
 Blackwell, Robert J.:
 remarks—
 June 3, 1969, 10043
 Oct. 17, 1969, 16050
 Oct. 30, 1969, 17165
 Bladder, *see* Urinary organs.
 Blade, O. C.:
 aviation turbine fuels, 5953
 burner fuel oils, 16093
 diesel fuel oils, 4634
 motor gasoline—
 summer 1968, 4635
 winter 1968-69, petroleum products survey, 13021

Blades:

- blade-motion stability boundaries for articulated rotor, parametric study, 6002
 - blade slap, helicopter noise, review and theoretical study, 1030
 - blade-to-blade stream surface of turbomachine, FORTRAN program for calculating velocities, etc., S611, S616, 14603
 - composing compressor blading from simulated circular-arc elements on conical surfaces, computer program, 16183
 - compressor rotor blading, performance comparisons of high Mach number, 2207
 - flexible helicopter blade with chordwise mass unbalance, steady flight differential equations of motion, 7668
 - flexible rotor, dynamic response to concentrated force moving from tip to root, 16167
 - full-scale rotor blade stopped in flight, aerodynamic and aeroelastic characteristics, 13676
 - gas turbine, transpiration cooled—
 - flow reduction due to oxidation of wire-form porous sheet, analytical study, 4729
 - oxidation resistant materials for, wire specimen tests, 1012
 - helicopter rotor, procedures for estimating flapwise bending moments, tables, 17204
 - highly loaded turbine stator blading in annular cascade sector, experimental investigations, 2198, S598, 10075, 16137
 - jet-flapped blades, performance, 16137
 - nature of helicopter rotor blade boundary layers, exploratory study, 16602
 - plain blade performance and effect of vortex generators, experimental investigation, 10075
 - plain rotor blade with plough type vortex generators, performance evaluation, S599
 - rotors, helicopters, classical flutter 7669
 - tandem rotor blade, performance evaluation, 2205
 - turbine blade cooling designs, steady-state stress relaxation analysis, 3089
 - turbine blade loading, advanced concepts to increase, experimental investigations, 2205, S599
 - turbine blade wear by coal ash in working fluid at 1,200° F, 10056
 - turbomachine blade-to-blade stream surface, FORTRAN program for calculating transonic velocities, 16176
- Blaine, R. L., interrelations between cement and concrete properties, shrinkage of neat portland cement pastes and concretes, 7319
- Blake, K.R., large area proton beams for radiobiologic research from NASA-SREL synchrocyclotron, 6416
- Blake Plateau, organic extracts from deep core samples, study, 12779
- Blanch, G., Mathieu's equations for complex parameters, tables of characteristic values, 15015
- Blanchard, Carol, letters of application and recommendation during administration of Martin Van Buren, William Henry Harrison, and John Tyler, pamphlet, 1162
- Blanchard, Ulysse J., full-scale dynamic landing-impact investigation of prototype lunar module landing gear, 7251
- Blanché, Ernesto E., testimony, hearings, 14049
- Blanco, V.M., photoelectric catalogue, magnitudes and colors of stars in U.B.V. and U.C.B.V. systems, S743
- Blast effects, *see* Explosions.
- Blast shields testing, 1112
- Blasting, agents, and commercial explosives, factors in selecting and applying, 4622
- Blatchford, Joseph H., nomination, hearing, 8065

- Bleeker, Theodore, sources of information on labor in Japan, 4471
- Blessing, William E., coordinated data system for highway planning, 7436
- Blew, J. O.:
 - comparison of wood preservatives in—Mississippi post study, 1969 progress report, 11171
 - stake tests, 12695
- Bley, Gerry, Tor-Shok reusable energy absorbing protective barrier, 14822
- Blight, *see* names of blights or plants affected.
- Blind:
 - aid to the blind, public assistance program, 3787, 6465
 - child, home and school programs, developments and trends, 6903
 - opportunity for the blind and visually impaired through vocational rehabilitation, 10354
 - public assistance, money payments to recipients, 2299
 - volunteers with vision, 912
- Blinded Veterans Association, legislative recommendations 1969, hearings, 6731
- Blindness, flashblindness and retinal burn, safe separation distances, calculation, 3707
- Blindness Statistics Model Reporting Area, *see* Model Reporting Area for Blindness Statistics.
- Bliss, J.C., characteristics of tactile information channel, 17198
- Blister rust, *see* White pine blister rust.
- Bloch, Richard E., oceanographic cruise summary, North Atlantic Ocean edge of Gulf Stream, 13259
- Blockey, W.V., Langley cardiovascular conditioning suit concept, preliminary evaluation test, 2189
- Blocks, design of experiments as doubly telescoping sequences of blocks with application to nuclear reactor experiment, 13137
- Blood:
 - blood pH and CO₂ tension, effect on performance of heart-lung preparation, 2130
 - cardiac output and regional blood flow in conscious rats exposed to acute hypoxia, 2131
 - cardiac output in squirrel monkey (*Saimiri sciureus*) by thermomodulation, repeated or continual measurements, 14496
 - erythrocyte carbonic anhydrase in hypercapnic guinea pigs, maximum rate analysis, 13001
 - fibrinolysis, thrombolysis and blood clotting, 1968 annual compilation, S685
 - hematopoietic neoplasms, comparative morphology, 16259
 - hemodynamic changes in individuals working under microwave irradiation, USSR study, 12932
 - insulin-inhibitory factor in human blood, role in charcoal radioimmunoassay, 9008
- International Working Conference on Freeze-Preservation of Blood, proceedings, 11572
- measuring iron metabolism in hematopoietic centers using iron-59 in presence of chromium-51 and iodine-125, 104
- medicare insurance coverage, 16421
- National Heart Institute's national blood resource program, 14691
- nomograms correlating dose of MMH with blood levels, 16572
- plasma, determining plasma volume, blood volume, and red cells mass with iodine-125, 90
- red cell mass, red cell survival, and total blood volume with chromium-51, 1541

- Blood—Continued
 red cells, radiochromium-labeled, and radioiron-labeled plasma, simultaneous measurement of blood parameters, 3712
 RH isoimmunization, hemolytic disease of fetus and newborn due to RH isoimmunization, 13777
 samples, analyses and measurements, 17199
 subjects exposed to helium-oxygen environment at 7 atmospheres pressure, carbonic anhydrase analyses, 16061
 use of cadaver blood and some aspects of homoplasty, selections from scientific meeting, USSR study, 12925
- Blood pressure:
 circulatory responses to x-irradiation delivered at 200 rads per minute to whole body and trunk only, 3710
 high, hypertension, causes, treatment, research, etc., 4778
 relating to physique, blood glucose, and serum cholesterol, 17359
 renal diseases and hypertension, Public Health Service cooperative studies, conferences, proceedings, 14800
 serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease, Framingham study, 16255
- Blood vessels, cerebral vascular disease and strokes, 8805
- Bloom, M. C., corrosion products of iron and their relation to corrosion in steam-generating equipment, 13293
- Bloomington, Ind., diagnostically based curriculum, preschool program in compensatory education, 6890
- Blount, Leon, pine management pays off, 11746
- Blount, Winton M:
 addresses, etc.—
 May 5, 1969, 8770
 Sept. 9, 1969, 14772
 Oct. 14, 1969, 16331
 nomination, hearings, 4095B
- Blouses, women's blouse industry, Puerto Rico, under Fair labor standards act, minimum wage rates, 11776
- Blowers:
 current industrial reports, 6496
 shipments, 1958-67, patterns of industrial growth, 11976
- BLS, see Labor Statistics Bureau.
- Blue, Brantley, nomination, hearing, 9472
- Blue collar workers:
 examination announcement, 6519
 Federal, occupations, Oct. 31, 1966, list, 1645
 helpers, examination announcement, amendment, 7765
 upturn in blue-collar jobs, emergency needs of Defense Dept., 2124
 See also Government officials and employees.
- Blue crabs, trothine for, 1668
- Blue lead, galena ores, Burgin mine, East Tintic district, Utah, micromineralogy, 5722
- Blue Range, primitive area, mineral resources, 14328
- Blue Ridge, southern area, Georgia, North Carolina, South Carolina, and Tennessee, soil survey interpretations for woodlands, 17391
- Blue-sac disease of fish, 11686
- Blueprints, reading and sketching, Navy training course, 1248
- Blum, Jerome B., remarks, Oct. 10, 1969, 15713
- Blum, Robert E., buckling of equatorial segment of spherical shell loaded by its own weight, 1133
- Blume, Hans-Juergen C.:
 application of pressurized liquid nitrogen inside parametric-amplifier structures for input-noise-temperature improvement, 17250
 error analysis of input-noise-temperature measurements of low-noise amplifiers, 4727
- Blumenson, Martin, Salerno to Cassino, United States Army in World War II, Mediterranean theater of operations, 16071
- Blumstein, Alfred, national program of research, development, test, and evaluation on law enforcement and criminal justice, 875
- Blunt, William W., jr., address, Oct. 30, 1969, 16937
- Blunt bodies:
 blunt body equilibrium air flow field, modified method of integral relations approach including comparisons with inverse solutions, 16182
 bluntness and angle of attack, effects on laminar heating-rate distributions of 15° cone, 16190
 experimental stagnation-point velocity gradients and heat-transfer coefficients at Mach 8 and angles of attack, 11444
 family, experimental pressure distributions at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15°, 14637
 magnetoaerodynamic flow around body, experimental investigation, 14574
 radiating, nonadiabatic, inviscid flow over blunt body, method of integral relations solution, 17230
 revolution at small angles of attack in supersonic flow, method of determining surface pressures, 2229
 shock precursor heating on radiative flux to blunt bodies, effect, 4680
 solutions of blunt-body stagnation-region flows with nongray emission and absorption of radiation by time-asymptotic technique, 4755
 stagnation-region flow with nongray radiation heat transfer, singular perturbation solution, 1148
 three dimensional supersonic flow over blunt body, USSR study, 2086
 use of tetrafluoromethane to simulate real-gas effects on their hypersonic aerodynamics, 11499
- Blyth, James E.:
 Indiana sawmills receive 232 million board feet of saw logs, 4314
 pulpwood production and consumption in north central region by county, 11191
 veneer-log production and consumption, North Central region, 4333
- B'nal B'rith, B'nal B'rith women and civil defense, 12031
- BNDD, see Narcotics and Dangerous Drugs Bureau.
- Board of Arbitration, Federal Employees, see Federal Employees Board of Arbitration.
- Board of Regents of Smithsonian Institution, see Smithsonian Institution.
- Board of Trustees of Federal Hospital Insurance Trust Fund, annual report, 3968
- Board of Trustees of Federal Supplementary Medical Insurance Trust Fund, annual report, 6571
- Boards (organizations), see Housing and Urban Development Department.
- Boards of Review, Judge Advocates General, court-martial reports, holdings and decisions, 9513
- Boating:
 accidents, reduce, by establishing coordinated national safety program, hearings, 1707

Boating—Continued

- Coast Guard Auxiliary, add new dimension to your boating activities, 5284
- recreational boat accidents, boating safety programs, and preventive recommendations, study, 13207
- recreational boat safety, reports, 2519, 9300
- regulations in National Park Service, 1211
- statistics, motorboat numbering, boating accidents and related activities, 6534

Boats:

- Coast Guard Auxiliary courtesy examination decal, a part of your boat, information for boatman, 360
- Indian trade-boats, etc., operating on Savannah River during 19th century, 14153
- measurement of discharge by moving-boat technique, 5725
- recreational boat accidents, boating safety programs, and preventive recommendations, study, 13207
- safety standards, establish, applicable to manufacturer, hearings, 1707
- small boat harbors, ramps, landings, etc., Ohio River—
 - and tributaries, 9711
 - location, types, facilities, etc., 9710
- small, safety, regulations, etc., hearings, 1707
- see also* Harbor craft.

Boatswains, *see* Aviation boatswain's mates.

Bobwhite, *see* Quail.

Bocerady, Joseph A., effects of surface mining on fish and wildlife in Appalachia, 1427

Boek, William B., directory of prepaid dental care plans, 6059

Bodien, Danforth G., plywood plant glue wastes disposal, progress report, 6988

Bodies (aerodynamics), *see* Aerodynamics.

Bodies of revolution:

- axisymmetric shells of revolution, incremental analysis of large deformations in mechanics of solids, 11410
- buckling of shells of revolution with various wall constructions, basic equations and method of solution, errata, 16120
- conical afterbodies, effect on base drag of recessing bases at subsonic and transonic speeds, 1064
- having minimum total drag in hypersonic flow, 16184
- inclined bodies of revolution, method of characteristics for steady 3-dimensional supersonic flow, 17218
- pointed body of revolution in supersonic flow with turbulent boundary layer, method for determining total drag, 7253
- rotating relative to uniform magnetic field, experimental determination of eddy-current torques, 11442
- slender conical bodies with strakes at low speeds, nonlinear lift and pressure distribution, 1021
- vortex shedding from bodies of revolution undergoing coning motion, 17208

Bodine, B. R., hurricane surge frequency estimated for Gulf Coast of Texas, 10995

Body (human), *see* Anatomy.

Body and fender repairman:

- automotive body repairman, suggested guide for training course, 4161
- employment outlook, 4478

Body armor, *see* Armor.

Body temperature, device for cooling human brain, USSR study, 12882

Body weight:

- birth weight variations, 6212
- food and your weight, 13590

Boe, Nils A., nomination, hearings, 9447

Boeckel, J. IL, test plan optimization for Explorer-size spacecraft, 13090

Boegly, W. J., jr., feasibility of deep-well injection of waste brine from inland desalting plants, 8421

Boehrer, J. M., medical food service computerization study, 10531

Boernum, Marle, discover and use your public library, 14855

Bog pond, Federal jobs for engineers, physical scientists, mathematicians, 9191

Bogdankevich, L. S., anomalous absorption of cyclotron waves in confined plasma, 16617

Bogden, Arthur E., response of specific glucocorticoid-mediated glycoprotein (alpha-2-GP) to irradiation injury, 9007

Boggess, Durward II., test of flushing procedures to control salt-water intrusion at W. P. Franklin Dam near Ft. Myers, Fla., 8359

Bohan, J. P., mechanics of flow from stratified reservoirs in interest of water quality, 14156

Bohn, G. W.:

- cantaloup breeding, correlations among fruit characters under mass selection, 8993
- cooperative muskmelon breeding program in Texas, 1955-67, new rating scales and index selection facilitate development of disease-resistant cultivars adapted to different geographical areas, 11887

Boilermakers, employment outlook, 4481

Boilermen, *see* Firemen (stokers).

Boilers:

- boiler plant operator, job grading standard, 16683
- counterflow double-containment tantalum-stainless steel mercury boiler, design and fabrication, 8617
- double-containment tantalum-and-stainless steel mercury boiler for SNAP-8, design-point performance, 1137
- forced-flow single-tube boiler with inserts and exist restriction, frequency response, 5996
- power, steel, current industrial reports, 9148
- single-tube counterflow, analytical and experimental study of dynamics, 5972

Boiling:

- film boiling from submerged spheres, 13069
- sodium, in single tube-in-shell heat exchanger over range 1720° to 1980° F (1211 to 1355K), tests, 11495

Boiling water reactors, *see* Reactors (atomic).

Boise, Idaho, area wage survey, 2117

Boisvert, William E.:

- currents along east coast of Africa, 13214
- major currents in North and South Atlantic Oceans between 64° N and 60° S, 4824

Bokhai Kingdom, ancient, USSR book, reviewed, 5845

Boldman, Donald R., experimental and theoretical turbulent boundary layer development in Mach 4.4 water-cooled conical nozzle, 14625

Boley, Charles C., entrainment drying and carbonization of wood waste, 13026

Bolinas Lagoon, sedimentation and hydrology, preliminary studies, 15801

Bolivia:

- agricultural commodities, agreements, 1455, 2499, 8892-93
- capsule facts for Armed Forces, 5096
- foreign trade regulations, 10655
- mineral industry, minerals yearbook chapters, 947, 14537

Boll weevils, *see* Weevils.

- Bollen, W. B. :
influence of sitka alder on soil formation and microbiological succession on landslide of alpine origin at Mount Rainier, 12707
properties of tree barks in relation to their agricultural utilization, 17050
- Bollworms :
corn earworm moths, rapid method of marking, with dyes for release studies, 1497
mass rearing corn earworm in laboratory, 10459
pink, 50 years of research, 6374
tomato fruitworm, control, 8970
- Bolsenga, S. J. :
Great Lakes solar altitude charts and tables, 4611
river ice jams, literature review, 904
- Bolts and nuts :
making, classification definitions, 2361
nuts, Federal item identification guide, change, 14091
rock-bolt anchor creep, load loss, 4641
threaded studs, Federal item identification guide, change, 5493
- Boltz, Frederick W., minimum thrust for correcting Keplerian orbits with application to interplanetary guidance, 2245
- Bombing (aerial), *see* Air raids.
- Bombs, fuzes, reasonableness of prices questioned under three negotiated contracts, Army Department, GAO report, 12748
- Bonavito, N. L. :
accuracy and speed comparison of Vinti and Brouwer orbit prediction methods, 11454
analysis of satellite positional uncertainty by statistical mechanics, 13080
- Bond, Deborah T., annual digest of State and Federal labor legislation, 4468
- Bond, John W., Andrew Johnson House, 10204
- Bond, Victor R., matched-conic solutions to round trip interplanetary problems that insure state-vector continuity at all boundaries, 4705
- Bond paper, *see* Paper.
- Bondelid, R. O., demineralized water system for NRL cyclotron, 13274
- Bonding, adhesive, function of adhesion promoters, 17313
- Bonding of materials :
adhesive bonding and miscellaneous chemical manufacture, classification definitions, 2367
Parker ultrasonic adhesive bond test, military (R) standards, 10954
metal fusion-bonding apparatus, classification definitions, 11577
Minnesota clay resource for iron ore pellet bonding, field investigation and testing, 2173
refractory metal compounds by hot pressing, 4646
- Bonds :
open market money rates and bond prices, monthly, 3220
purchase plans, income tax, laws, and regulations, 809
purchase plans under self-employed individuals tax retirement act, guide, 4417
sales for public school purposes, 4162
see also Municipal bonds—Savings bonds—State bonds.
- Bonds of United States :
liberty loan acts, compilation, 350
2d liberty bond act—
amendment, report, 16776
participation certificates issued by Federal National Mortgage Association, opinion of Attorney General, 5879
see also Government securities—Savings bonds.
- Bones, James T., volume tables and equations for old-growth western hemlock and sitka spruce in southeast Alaska, 8293
- Bonner, George P., postflight optical evaluation of right-hand and left-hand windows of Gemini missions IV, V, VI, and VII, 2234
- Bonneville Dam, fish passage report, 14148
- Bonneville, Lake, catastrophic late Pleistocene Bonneville flood in Snake River Plain, Idaho, 750
- Bonneville Power Administration :
annual report, 6482
appropriations, 1970—
hearings, 12204
report, 15298
8th annual Power Use Conference, proceedings, 10585
general sales statistics, 7728
generation and sales statistics, 16637
ten-year hydro-thermal power program for Pacific Northwest, 6483
- BONUS (boiling water nuclear superheat) power reactor, *see* Reactors (atomic).
- Bonus (military) :
reenlistment bonuses to candidates in officer training programs, cessation of unauthorized payments, GAO report, 14306
- Bonus system, code of Federal regulations, 9816
- Book about space, 4904
- Book of Mars, 4694
- Book stores, *see* Stores.
- Bookkeeping machine operators, employment outlook, 4482
- Books :
books, strips and leaves, classification definitions, 4844
catalog of copyright entries, 516, 5471
children's, 1968, list, 5919
copyright, general information, 14072
Federal item identification guides for supply cataloging, supplements, 2849
historic, concerning horticulture and forestry in collection of National Agricultural Library, 1157
Library of Congress—
author catalog, 3170
list, 16034
national union catalog, cumulative author list, register of additional locations, 16039
subject catalog, 3069
making, classification definitions, 1276
Mars (planet), 4694
new versions and reprints, 14070
related to compensatory education, 16952
see also Printing books.
- Books (talking), *see* Talking books.
- Bookstores, *see* Stores.
- Booms, with open cross section, phenomenon of thermoelastic instability (thermal flutter), 11456
- Boone, R. S., chemical control of bostrichidae during air drying of fence posts, 12709
- Boone, Thomas H., laboratory-field comparisons of built-up roofing membranes, 4768
- Boone County, Ark., community profile, 15541
- Boosters (rocket), *see* Rockets.
- Booth, John W., III, relief, 7865, 13841, 13976
- Booth, Richard F. :
expansion of Naval flight officer student prediction system, 14499
optimal weighting of course grades for 2 naval air training schools, 14500
- Boots and shoes :
copying shoe lathes, suspension of duty, continue—
law, 15204
reports, 7898, 10846
direct molded sole boots, 3758
footwear industry, wage survey, 16024

- Boots and shoes—Continued
 footwear production by manufacturer's selling price, current industrial reports, 12001
 industry in Puerto Rico, data pertinent to review of minimum wage rates, 13529
 Massachusetts shoe manufacturing wage chronology, supplement, 7171
 nonrubber footwear, Tariff Commission report, 4986
 sealed insulated military boots, 3761
 shoes and slippers, current industrial reports, 237, 2732
- Booze, Charles F., usage of combined airman certification by active airmen, airman population estimate, 210
- Border Patrol, Immigration and Naturalization Service, origin and work, 11273
- Borderline medical problems and fitness for flying, 86
- Borelli, Michael T., analysis of commutated networks employing feed back circuits, 1111
- Bergmeier, Thomas, Bredin-Archbold-Smithsonian biological survey of Dominica, Phoridae of Dominica (diptera), 17374
- Borgonovi, G. M., thermal neutron scattering measurements in water, 12826
- Borides, coatings for nitridation-oxidation protection of chromium alloys, exploratory study, 11448
- Boring:
 boring or penetrating the earth, classification definitions, 1284
 horizontal boring technology, underground power transmission installations, state-of-art study, errata, 939
- Boring insects, *see* names of insects.
- Boring machinery, *see* Drills (tools).
- Borkovec, A. B., aziridinyl chemosterilants for house flies, 2
- Borneo:
 south, southeast, and east coasts, sailing directions, change, 4820
 western and northeast coasts and off-lying islands, sailing directions, change, 6121
- Bornstein, Leon, wage and benefit developments in manufacturing, 2123
- Boron:
 boron-epoxy and glass-epoxy filament-wound cylinders, mechanical behavior, under various loads, 7256
 boron-filament-reinforced epoxy rings and belts, tensile behavior, 6008
 composite structures fabricated with reinforcement materials, 182
 minerals yearbook chapter, 14525
- Borrowing, *see* Loans.
- Bortner, M. H., review of rate constants of selected reactions of interest in re-entry flow fields in atmosphere, 10181
- Borum, Rodney L., address, Oct. 23, 1968, 212A
- Boschert, Gilbert P., system shakedown tests (C2ON)NAS en route stage A model 1, functional package A, flight data processing, 15693
- Boschitz, Edmund T., optical model analysis of proton scattering in range 16 to 22 MeV 8614
- Bosque del Apache Grant, N. Mex., groundwater explorations, 12775
- Boss, B. D., diffusion-limited, liquid-phase oxidation of n-dodecane at 200° C, 10250
- Boss, Kenneth J., zoological taxa of William Henley Dall, 1205
- Bosselman, Fred P., alternatives to urban sprawl, legal guidelines for governmental action, 4860
- Bossert, Warren H., operation of reverse osmosis desalination unit at Webster, S. Dak., 8420
- Bossler coupling, 4671
- Boston, Mass.:
 accounts and deposits in all commercial banks in district, summary, 9759
 area wage survey, 4602
 General E. L. Logan International Airport, climatological summaries, 16492
 harbor and its tributaries, pollution of navigable waters, conference proceedings, 1896
 high-speed rail line, grade crossings, eliminate, hearings, 13939
 Metropolitan Intrastate Air Quality Control Region, report for consultation, 4895
 passenger lists of vessels arriving, 1848-91, index, pamphlet to accompany microcopy, 14659
 Police Department, reports, records and communications, system improvement study, LEAA project report, 873
 Boston and Maine Corporation, railroad accident, report, 4817
 Bostrichidae, chemical control, during air drying of fence posts, 12709
- Botswick, Don:
 farm financial management research, theoretical analysis, 570
 partitioning financial returns, application to growth of farm firms, 4156
- Botanic Garden:
 appropriations, 1970, legislative—hearings, 13917
 reports, 15271, 16862
- Botanical Congress, International, *see* International Botanical Congress.
- Botany:
 Big Pelican Cay, botanical description, 17371
 needs of plant resource science outlined, USSR study, 12917
 Smithsonian contributions to botany, 13415, 16403
- Bothnia, Gulf of, lights and fog signals, list, changes, 2336, 8753, 17303
- Bothriogastrinae, *see* Centipedes.
- Botswana:
 background notes, 6266
 capsule facts for Armed Forces, 9022
- Bottge, Robert G., mineral industry of Illinois, 2143
- Bottles, plastic, current industrial reports, 2732
- Bottom sediment charts, *see* Maps and charts.
- Bottom trawl explorations in Lake Superior, 6547
- Botulism:
 Clostridium botulinum—
 type E—
 inoculation of haddock and clams, gamma ray effect, 7685, 7712
 significance in application of radiation-pasteurization process to Pacific crab meat and flounder, 7708, 7711
 temperature range 34° F to 50° F, growth characteristics, 5146-47, 5181, 6467, 6471, 6473
 type F, physiological studies, 5167-69, 6472
 types E nonproteolytic B and F, growth and toxin production in nonirradiation and irradiated fisheries products, 7709-10
 outbreak in California, hearings, 12238
 Boulder, Mont., batholith region, distribution of thorium, uranium, and potassium in igneous rocks and its bearing on radiogenic heat production and heat flow, 15805
 Boulder County, Colo., flood plain information, 12463
- Boundaries:
 international—
 boundary study, 1444-45, 2489, 4964-66, 10415, 17407
 records of preliminary inventory, 1171

Boundaries—Continued studies—

- Afghanistan-China boundary, 10415
- Algeria-Mauritania, 4966
- Algeria-Spanish Sahara boundary, 1445
- Central African Republic-Chad boundary, 1444
- China-Pakistan, 2489
- Dahomey-Nigeria boundary, 17407
- French Territory of Afars and Issas-Somalia, 4965
- India-Pakistan, Rann of Kutch sector, 4964

Boundaries (physics) :

- land/sea boundary in earth-ionosphere waveguide, VLF mode calculations for propagation across, 1833

Boundary layer :

- annular cascade sector of highly loaded turbine stator blading, experimental investigation, 2198, 8598, 10075, 16137
- boundary effects of uniform size roughness elements in two-dimensional flow in open channels, 4214
- chemical reactions, 13146
- compressible turbulent—
 - pressure gradients and heat transfer calculation, 7237
 - symposium, 17216
- control on inverted V-tail twin-propeller deflected-slipstream STOL airplane model, aerodynamic characteristics, 1082
- displaced dielectric-dielectric boundary, admittance of parallel-plate aperture illuminating, 6004
- eddy formation in fish locomotion, USSR study, 15931
- flight test results of trailing edge flap designed for direct-lift control, 17201
- heat-transfer and pressure distributions inside hingeline gap of wedge-flap combination, 1126
- hypersonic turbulent nozzle-wall, comparison of prediction methods and studies of relaxation, 16181
- hypersonic turbulent, on simple shapes, summary and correlation of skin-friction and heat-transfer data, 11443
- incompressible turbulent, investigation of effect of fluid injection on skin-friction coefficient, 9057
- laminar flat-plate boundary layer and aerodynamic heating at Mach. 10.4, effects of leading-edge thickness, 8636
- multidimensional gas flow through permeable char layers and its effects on ablation, 4752
- nature of helicopter rotor blade boundary layers, exploratory study, 16602
- new momentum-integral method for treating magnetohydrodynamic and simple hydrodynamic entrance flows, 10133
- plane-stress analysis of plate subjected to boundary loads, boundary displacements, etc., errata, 2182
- roughness drag due to two-dimensional fabrication-type surface roughness on ogive cylinder from force tests at transonic speeds, 4732
- stagnation point, with suction and injection in equilibrium dissociating air, corrected copy, 2217
- transition location and Reynolds number effects on shock-induced separation, 4731
- tripling elements in hypersonic flow, flow-field and drag characteristics, 16192
- turbulent—
 - and transition on plane plate, calculations, errata, 1149
- compressible, method of calculating, 1002
- experimental and theoretical development in Mach 4.4 water-cooled conical nozzle, 14625
- function of ctenoid apparatus of fish in presence, USSR study, 15963

Boundary layer—Continued turbulent—continued

- Mach 2.49 and 4.44, flow-field measurements downstream of 2 protuberances, on submerged flat plate, 14608
- supersonic flow, method for determining total drag of pointed body of revolution, 7253
- typical subsonic transport fuselage, experimental investigation, 11464
- wedge-induced laminar-boundary layer separation at moderate enthalpies in hypersonic flow, low-density, leading-edge bluntness and ablation effects, 2226
- 0.3-scale jet-transport model having jet-augmented boundary layer control flap with direct lift control capability, investigation, 11445
- Boundary-value problems, combined Newton-Raphson and gradient parameter correction technique for solution of optimal control problems, 1147
- Boundedness theorems and other mathematical studies of Hodgkin-Huxley type system of differential equations, 7226
- Bourkland, Martin T. :
 - oceanographic cruise summary—Davis Strait, 13254
 - Greenland Sea, 13221
- Bourne, Charles T., training device developments, 3504
- Bourquin, Larry B., investigations in determining astronomic latitudes and their computer programs, 13226
- Bouthilet, Lorraine, mental health digest (periodical), 3113
- Bove, Peter A., nomination, hearings, 8076
- Bovine tuberculosis, see Tuberculosis in animals.
- Boving, P. A., box ejector for insect distribution from helicopter, 11791
- Bowen, C. W., installation of high-reduction-ratio transmission in UI-1 helicopter, 11950
- Bowen, I. G., estimate of man's tolerance to direct effects of air blast, 17123
- Bowers, Chester G., opportunities for development of national airport system, 13648
- Bowers, R. C. :
 - pressure effects on friction coefficients of thin-film solid lubricants, 1266
 - wear and friction studies of neopentyl polyol ester lubricants, 1267
- Bowie, Martha G., foreign regulations affecting U.S. textile/apparel exports, 13726
- Bowling-pin-machine mechanics, see Mechanics (persons).
- Bowls, centrifugal separators, classification definitions, 1290
- Bowman, Mary J., communication and mountain development, summary report of two east Kentucky studies, 9531
- Bowman, Robert L., performance of N/P silicon and cadmium sulfide solar cells as affected by hypervelocity particle impact, 8625
- Bowman, Roy G., remarks, Sept. 25, 1969, 16048
- Bown, Thomas A. :
 - Louisiana 1968 plant materials annual progress report, 16436
 - Mississippi 1968 plant materials annual progress report, 16437
- Bowser, Merle L., Bureau of Mines portable recording methanometer, 11385
- Bowsher, Charles A., nomination, hearing, 5428
- Box cars, boxcar defects and grain transit losses, relationships, 6356
- Boxes :
 - box ejector for insect distribution from helicopter, 11791
 - comparison of keeping quality of Jonathan and red delicious apples stored in field boxes, 8946

Boxes— Continued

- Federal item identification guide for supply cataloging, 6832, 15498
- fiberboard—
 - corrugated, modular, intermodal, military standard, 10955
 - feasibility of shipping fresh apricots and prunes jumble packed, 14997
 - polystyrene, for shipping ice-packed poultry, cost and performance, 6383
 - strength of fiberboard boxes and fruit cooling rate, effects of ventholes, 6357
 - wood, preservative treatments for protecting, 12708
- Boy Scouts of America, annual report, 9254
- Boyd, Alan S., remarks, Feb. 20, 1968, 2518
- Boyer, Dennis L., annotated climatological bibliography of India, 13620
- Boyer, R. L., 1000-MWE LMFBF follow-on study, task 1, concept 1, system description report, 10559
- Boyer, William D., foliage weight and stem growth of longleaf pine, 8304
- Boyle, J. C., experimental determination of eddy-current torques on bodies rotating relative to uniform magnetic field, 11442
- Boyle, James R.:
 - waste disposal costs of Florida phosphate operation, 7207
- Boyle, Robert J., thermal analysis of shadow shields and structural members in vacuum, 1099
- Boypower, manpower, America's manpower begins with boypower, Boy Scouts of America, 9254
- Boys' clothing, *see* Clothing.
- Bozzelli, Michele, copper, quarterly industry report, 1968 annual statistical supplement, 10589
- BPR, *see* Public Roads Bureau.
- Brabb, Earl E., six new Paleozoic and Mesozoic formations in east-central Alaska, 11230
- Braced wall silo, 46
- Brachiopods, Permian, new from west Texas, 14859
- Bracing, *see* Unlading and lading.
- Brackets:
 - brackets for light helicopter cargo hooks, 14259
 - Federal item identification guide, 15499
- Brackett, Jean C., three standards of living for urban family of four persons, 5895
- Brackett, R. L., geometric properties of prestressed segmented spherical shell, 1032
- Brackish water, *see* Water.
- Braddock, William A., geology of Empire quadrangle, Grand, Gilpin, Clear Creek Counties, Colo., 14349
- Bradford, James M., jr., method for characterizing surface cleanliness during adhesion testing, 6009
- Bradley, Omar N., tribute, report, 7933
- Bradley County, Ark., community profile, 15542
- Bradley County, Tenn., forest inventory statistics, 11743
- Bradley quadrangles, Calif., geology, 732
- Brady, John J., jr., brief outline of major countries in Europe, 10779
- Brady, Stephen W., boundedness theorems and other mathematical studies of Hodgkin-Huxley type system of differential equations, 7226
- Bragg, Vernon C.:
 - audiometer modification and pulse-tone technique for pure-tone threshold determination, 1550
 - pure-tone air conduction audiogram, 16571
- Bragin, Morrie, starting and managing small retail camera store, 17370
- Braid, trade and tariff information, summaries, 1461

Brain:

- cerebellum and cerebral cortex of rats at different stages of conditioning, quantitative changes in nuclear RNA, USSR study, 8507
- human, device for cooling, USSR study, 12882
- infarction by sex, age and level of characteristic, etc., Framingham study, 8690
- psychics and the brain, USSR study, 4450
- surgery, stereotaxic techniques, selected readings, 1485
- Brainard, William A., thermal stability & friction of disulfides, diselenides and ditellurides of molybdenum and tungsten in vacuum, 10110
- Braman, James D., nomination, hearings, 9452
- Branchiobdellida, *see* Annelids.
- Brand new ball game, the 70's, 15704
- Brandhorst, Henry W., jr., impurity profile and energy band diagram for suprious sulfide-cadmium sulfide heterojunction, 6021
- Branniff Airways, Inc., aircraft accident report, 16282
- Brannan, F. T., fungus-inhibitive coatings in jungle environment, 10263
- Brandt, Willy, remarks, Apr. 10 1969, 8883
- Branham, Margaret A., Ghana's agricultural economy in brief, 6857
- Brass mills:
 - inventories of shapes, current industrial reports, 2732-33
 - scrap and metal consumption and stocks, mineral industry survey, monthly, 2629
- Brassiers, Pareto Rico, under fair labor standards act, minimum wage rates, 11771
- Braun, Walter, line emission sources for concentration measurements and photochemistry 7325
- Bravo (ocean station), *see* Weather stations.
- Bray, E. E., organic extracts from JOIDES cores off northeastern Florida, 12779
- Brayton cycle:
 - Brayton rotating unit on rolling-element bearings, design, 14578
 - comparison with Rankine cycle magnetogasdynamic space-power generation systems, 6022
 - 400-hertz Brayton energy conversion system, electrical component development, summary, 1097
 - high-performance turboalternator, 7230
 - magnetohydrodynamic space-power generation systems, effect of electrothermal instabilities, 16195
 - solar Brayton heat receiver, transient solidification outside cooled pipe with application to, 1114
 - space power application, 1-megawatt reactor design—
 - neutronics design calculations 4740
 - thermal analysis and core design, 4739
 - turbomachinery rolling-element bearings, 4666
 - 1200 Hertz Brayton-cycle space-power system, using 14.3-kilovolt-ampere modified Lundell alternator, performance characteristics, 14643
 - see also* Turbines.
- Brazil:
 - agricultural situation, a look ahead, 571
 - air transport services, agreement, 11717
 - atomic energy cooperation for civil uses, application of safeguards by IAEA, agreement, 4974
 - background notes, 14896
 - earth resources, cooperative research in remote sensing for earth surveys, agreement, 4972
 - economic trends and their implications for United States, 17106, 17107
 - educational reform, 1961 law, 1808
 - hydrogeology of upper Capibaribe Basin, Pernambuco, etc., 11251
 - maritime transportation consultations, agreement, 2493

- Brazil—Continued
 mineral industry, minerals yearbook chapter, 2135
 plant quarantine import requirements, 15
 production and export of corn and rice, prospects for 1970's, 15624
 records of Dept. of State, pamphlet accompanying microcopy, political relations, 1910-29 with U.S. and with other States, 7317
- Brazos River and Valley, Cow Bayou, Tex., 1966, compilation of hydrologic data of basin, 12762
- Bread, baking, Army technical manual, 15052
 Bread, Day of, *see* Day of Bread.
- Breaker, Laurence C.:
 magnitude of temperature variability at one location in Tongue of the Ocean, 13212
 variability of bottom reflected signals using deep research vehicle Alvin, 13213
- Breakers, *see* Waves.
- Breakfasts:
 food cost control, school breakfast program, 4105
 school breakfast program—
 how it works, etc., 8107
 meals for needy children, provide temporary emergency assistance, report, 12187
 strengthen and expand—
 hearings, 5373, 16877
 reports, 6686, 6689
 school, menu planning guide, 6813
- The breakout of Alaska's Lake George, 8338
- Breakthrough, HUD program, 11260
- Breakwaters, previous coastal structures, water wave transmission through and reflection by them, hydraulic laboratory investigation, 19688
- A breath of hope, 17330
- Breckenridge, Roger A., proton-produced defects in n-type silicon, 1066
- Bredin-Archbold-Smithsonian biological survey of Dominica, 4796, 8709, 13417-418, 13428, 17374
- Breeder reactors, *see* Reactors (atomic).
- Breeding, *see* names or classes of plants or animals.
- Brehm, William K., nomination, hearing, 5427
- Bremsstrahlung radiation:
 and electron transmission, experimental study, 14572
 investigation of production in spacecraft materials, 13042
- Brenner, Edward J.:
 addresses—
 Oct. 16, 1968, 1275
 Oct. 22, 1968, 1298
 May 2, 1969, 8769
- Brescia, R., upper-atmosphere density-determination using NRL artificial satellites, 10264
- Breslau, Lloyd:
 riverbank echo-ranging system for riverine positioning, 13247
 technique for location of buried sand and gravel deposits in shallow-water areas, 13246
- Brewer, Durward, socioeconomic factors affecting participation in water-oriented outdoor recreation, 8156
- Brewer, Edwin B., base flow field at high altitude for four-engine clustered nozzle configuration, 10115
- Brewer, W. Donald, nomination, hearing, 8091
- Brewer, William D., effect of chemical state of pyrolysis gases on heat-shield mass, 2265
- Brewing industry, use of wooden pallets, 17047
- Brewster County, Tex., geology of Comstock-Indian Wells area, 4364
- Brezhnev, Leonid, doctrine of limited sovereignty, 9463
- Brice, Edward W., Human Rights Year, 1968, suggested activities and reading materials for secondary schools, 2399
- Brickell, James E., method of constructing site index curves from measurements of tree age and height, application to inland Douglas-fir, 690
- Bricklayers, employment outlook, 4484
- The bridge to your success, 16385
- Bridger National Forest, general information, 14251
- Bridges:
 construction on Federal highway projects, standard specifications, 16389
 highway and railroad, alterations, etc., law, 15197
 highway, standard plans—
 concrete superstructures, 1362
 continuous bridges, 7438
 timber bridges, 11648
 members, reinforced concrete, ultimate design, strength and serviceability criteria, 16390
 military aluminum, rigging for airdrop of supplies and equipment, 6443
 toll facilities in United States, 4906
see also names of bridges or bodies of water to be bridged.
- Brief cases, current industrial reports, 2732
- Briefing on reemployment rights of members of Army National Guard and Army Reserve, 13658
- Briefs of accidents, U.S. civil aviation (periodical), 2630
- Briggs, Reginald P., changes in stratigraphic nomenclature in Cretaceous system, east-central Puerto Rico, 7046
- Briggs, Ted C., compressibility data for helium at 0° C and pressures to 800 atmospheres, 14551
- The bright adventure of Army nursing, 15060
- Brightness of sky, *see* Sky.
- Brimmer, Andrew F.:
 addresses, etc.—
 Oct. 1, 1968, 655
 Oct. 28, 1968, 652
 Nov. 7, 1968, 656
 Nov. 8, 1968, 650
 Nov. 12, 1968, 1886
 Dec. 28, 1968, 1885
 Jan. 10, 1969, 4282
 Mar. 8, 1969, 8240
 Mar. 26, 1969, 8244
 Apr. 17, 1969, 8243
 May 21, 1969, 9823
 June 8, 1969, 11133
 July 9, 1969, 12636
 July 25, 1969, 12648
 Aug. 28, 1969, 14227
 Oct. 4, 1969, 15734
- Brines:
 concentrated, recovery of metal salts, by chelation, 9971
 continuous washing of brine from ice crystals, 9972
 desalination brine waste, study of deep-well disposal, 17094
 effluents, disposal from inland desalting plants, review and bibliography, 14407
 environmental impact of brine effluents on Gulf of California, 9955
 sea water, chemicals, 17093
 waste brine from inland desalting plants, deep-well injection, feasibility, 8421
- Brink, Lawrence, relief, 13895
- Brinkman, M. Jean, associate degrees and other formal awards below baccalaureate, 6867
- Britain, Robert G., symposium on past, present, and future State X-ray programs, 11611
- British Asia, *see* Asia.

- British Columbia :
Columbia River basin, Okanogan and Ketchikan Rivers, river mile index, 13310
sailing directions, *change*, 14726
British Commonwealth, *see* Great Britain.
British Honduras :
background notes, 14890
capsule facts for Armed Forces, 120
economic trends and their implications for United States, 2036
reefs and cays, post-hurricane changes, 17371
British Isles, *see* Great Britain.
British Solomon Islands, plant quarantine import requirements, 11799
Britt, A. D., hypothesis of siloxane degradation at high temperature and effect of cerium-based inhibitor, 10268
Brittle fracture, *see* Fracture of metals.
Broadcasting, *see* Radio broadcasting—Radio stations—Teletexting—Television.
Broadwoven goods, *see* Textiles.
Broccoli, growing, general information, 5033
Broek, John L., development of low pressure reverse osmosis membranes and design of small unit for brackish water, 11282
Brock, Vernon E., operational aspects of Hawaiian live-bait fishery for skipjack tuna (*Katsuwonus pelamis*), 1671
Broderick, Grace N., supply and demand for energy in United States by States and regions, 1960 and 1965, coal, 5931
Broderick, A. E., investigation of suitability of white rats for suborbital studies of behavior in gravity field, 2206
Broilers, *see* Chickens.
Brokers :
credit, regulations, 12644
real estate, employment outlook, 4542
Bromeliaceae, foliar anatomy of genera *Conellia*, *Cottendorfia* and *Navia* (Bromeliaceae), monograph, 16403
Bromine :
minerals yearbook chapter, 13007
photographic study of bromine jet flowing in coaxial airstream and impinging on stagnation surface, 8650
Bronley, L. A., properties of sea water and its concentrates up to 200° C, 7084
Brook trout, *see* Trout.
Brooke, Albert B., Jr., nomination, hearings, 1737
Brooke, M. M., morphology of diagnostic stages of intestinal parasites of man, 16355
Brookhaven National Laboratory :
studies of sites for nuclear energy facilities (series), 728
vicinity, Suffolk County, N.Y., hydrology, 728
Brooks, Joseph D., investigation of plasma accelerator with magnetic field arranged to produce divergent-nozzle effect, 7289
Brooks, Thomas W., synthesis and evaluation of new membrane candidates for application in reverse osmosis, 2010, 15857
Broome, Joseph H. :
fluid power systems equipment, shipments and end use, 16639
industrial gas cleaning equipment shipments and end use, 11974
Brooms, trade and tariff information, summaries, 1466
Brozio, Manlio, remarks, Apr. 10 1969, 8883
Brotherhood of Locomotive Engineers, emergency board report, 8177
Brotherhood of Railroad Signalmen, emergency board report, 8178
Brotherhood of Railroad Trainmen, emergency board report, 4191
Brouns, Richard J., absolute measurement of alpha emission and spontaneous fission, 3801
Brown, Bertram S., mental and emotional illnesses in young child, 6185
Brown, Bobby J., boundary effects of uniform size roughness elements in two-dimensional flow in open channels, 4214
Brown, Burton L., soil survey of Worth County, Mo., 2465
Brown, Byron W., use of U.S.-owned excess foreign currencies, 7846
Brown, C. Ervin, new tale deposit in St. Lawrence County, N.Y., 7041
Brown, Earl S., relief, 7871
Brown, Elizabeth C., frozen fishery trade, historical statistics, 3910
Brown, Emma E., abstracts of BESRL research publications, 9052
Brown, George D., jr., multispectral photographic studies of red-bed facies, Minas Basin, Nova Scotia, 1531
Brown, George H., nomination, hearing, 14039
Brown, Gerald V., excitation spectrum for bise gas with repulsive and attractive interactions, 1072
Brown, Guy S., simulation test of Arcata, Calif., diamond runway centerline, 15692
Brown, Henry A., image enhancement with prolate spheroidal wave functions, 6148
Brown, Jack R., soil survey, Jenkins County, Ga., 6244
Brown, John N. :
reappointment as citizen regent of Smithsonian Institution—law 12112
reports, 8031, 9296
Brown, Lester R., paper, Dec. 3, 1968, 8458
Brown, Lester R., jr., mineral industry of Chile, 2137
Brown, M. John, degradation of multiplier phototubes exposed to spatial radiations, 7238
Brown, Pat, Peace Corps volunteer, 3243
Brown, R. R., copper removal from steel scrap by thermal treatment, feasibility study, 4640
Brown, Robert Z., biological factors in domestic rodent control, 8800
Brown, S. G., geohydrology and water utilization, 7059
Brown, William E., historic resources management plan, Big Bend National Park, 13188
Brown, William H., III, nomination, hearing, 8084
Brown, William T., soil survey, Lake County, Tenn., 14875
Brown spot, needle blight of longleaf pine, 14263
Brown Swiss cattle, *see* Cattle.
Browne, Secor D. :
addresses, etc.—
Oct. 10, 1969, 15127
Oct. 16, 1969, 15126
Oct. 17, 1969, 15125
Nov. 3, 1969, 16673
Nov. 5, 1969, 16672
nomination, hearings, 9452
Brownfeld, Allen, the New Left, 9404, 9476
Browns Ferry Nuclear Plant, Wheeler Reservoir, Ala., fish monitoring investigations, 7544
Browns Park, general information, 11288
Brownstein P. N., remarks, Aug. 12, 1968, 767
Browse, *see* Forage plants.
Bruce, David :
charts for determining sampling rate and number in sample, 12701
literature on timber measurement problems in Douglas-fir region, 4329
Bruce, Harry W., jr., planning education program for dental hygienist, 1197
Bruce, James A., oceanographic cruise summary, marine biofouling studies in Montego and Oyster Bays, Jamaica, 13253
Bruce, Louis R. :
address, Oct. 9, 1969, 15847
nomination, hearing, 14043

- Bruce, M. Melvin, estimation of variance by recursive equation, 16198
- Bruce, Martin M., human relations in small business, 16402
- Bruce, William E., energetics of percussive drills, 10054
- Brucellosis :
eradication—
cooperation with States, summary, 3478
cooperative State-Federal program, statistical tables, 11
- Brumberg, Abraham, problems of communism, 3335
- Brunhild, Gordon, distribution cost analysis, 4924
- Brunner, Robert O., fiscal impact of social security program, 4938
- Brunner, Ruth, relief, 10709
- Bruno, Emil, relief, 10706
- Brush :
chemical control, 14991
nonsprouting greenleaf manzanita brushfields in Cascade Range, reclamation, 8307
selective control on chaparral watersheds with soil-applied fenuron and picloram, 14283
- Brush Creek, flood plain information, 9678
- Brush plating, *see* Plating.
- Brushes :
Federal item identification guides for supply cataloging, supplements, 2847
trade and tariff information, summaries, 1466
- Bryan, D. E., rearing cotton insect parasites in laboratory, 13605
- Bryant, Melrose, Europe, western, selected references, 11912
- Bryson, J. O., techniques for survey and evaluation of live floor loads and fire loads in modern office buildings, 2282
- BSRL, *see* Behavioral Science Research Laboratory.
- BT, *see* Bathythermographs.
- Bubble chambers, low level counting, basic development and applications, final report, 13697
- Bubbles :
and bubble pressures in Antarctic glacier ice, 1575
bubble coalescence in ice as tool for study of its deformation history, 9031
monomolecular surface films, influence on production of condensation nuclei from bubbled sea water, 2351
single, motion under gravitational conditions, 16196
- Bubsey, Raymond T., crack toughness characteristics of several alloys for use in heavy sections of high speed aircraft, 5993
- Buchanan, Henry, battery life and moisture penetration of subdermally implanted devices, 13633
- Buchanan, Thomas J. :
discharge measurements at gaging stations, 11249
stage measurement at gaging stations, 1971
- Buck, Alan D., concrete cores from Dry Dock No. 2, Charleston Naval Shipyard, S.C., 11014
- Buck, James H., relief, 9265
- Buckrush, response to herbicides and to herbicides in combinations with mowing, nitrogen, fertilizer, and surfactants, 5068
- Buckley, Donald H. :
adhesion of gold to various planes of copper studied with LEED, 13094
effect of orientation and presence of surface active materials on friction deformation and wear of aluminum, 4724
- Buckley, Donald H.—Continued
influence of surface films on friction and deformation of single-crystal and polycrystalline gold, 1098
LEED study of adhesion of—
gold to copper and copper-aluminum alloys, 13126
rhenium, 10143
various materials to (111) surface of nickel, 10149
- Buckley, John D., effects of cyclic heating and thermal shock on hafnia stabilized with calcia, magnesia, and yttria, 14607
- Buckling, *see* Shells (structural)—Strains and stresses.
- Budget Bureau :
career staff to the President, 10586
opportunity for Geological Survey to increase revenues through changes in map-pricing practices, GAO report, 14322
statistical reporter (periodical), 3463
- Budget of United States :
act of 1921, amend—
hearing, 9350
report, 9305
amendments, 1969-70, proposals, 6581, 6588
budget process in Federal Government, 9348
estimates, submitted by the President, 90th Congress, 2d session, 4009
national goals and priorities, analyses of allocation of Federal budget resources, 16211, 17258
1969, status, staff report, 1719A
1970—
amendments, proposals, 5339, 7860, 9257, 12247
budget in brief, 3821
defense proposals, statement, 4146
departmental edition, 3822
appendix, 3823
District of Columbia—
departmental edition, 3824
document edition, 3957
document edition, 3956
appendix, 3958
hearings, 5364
special analyses, 5195
status, scorekeeping reports, 10817, 16832-833
supplement, executive, legislative, and judicial salary recommendations, 3825
supplemental, proposal, 12152
planning-programming-budgeting system, analysis and evaluation of public expenditures, 10688
print additional copies, reports, 10754, 12279
defense analysis, examples, 15458
innovations in State and local governments, 13848
interim observations, study, 472
rescuing policy analysis of PTPBS, 8072
specialists and generalists, selection of readings, 476
tax assistance for housing, its implications for Federal tax structure and Federal budget (remarks), 1481
- Budgets, *see* Budget of United States, *also* headings beginning Budget—*also* names of countries, States, etc.—*also* names of departments, etc.
- Budgets (family and personal) :
clothing money—
Ford family, 8981
Jones family, 8980
Turner family, 8982
incomes or budget costs by family type, revised equivalence scale for estimating, 890

Budworms :

- spruce budworm—
 - on Superior National Forest, biological evaluation, 7006
 - tolerance to malathion in Montana and New Mexico, 4321
 - western, and 2-year-cycle, literature review, 5679
- western—
 - estimating defoliation of Douglas-fir and white fir, 14287
 - 24 inch branch as sample unit for egg mass surveys, 5674

Budy, Ann M., biology of hard tissue, 1038
 Buelow, Ralph W., waste disposal in the New York Bight, 4890

Buffalo, N.Y. :

- Air Quality Control Region, report for consultation, 6199
- area wage survey, 8553
- riots, looting, and burning, subversive influences, hearings, 4005

Buffalo Lake National Wildlife Refuge, general information, 2473

Buffalo National River :

- establish—
 - hearing, 14041
 - reports, 14008, 14041
- proposed, general information, 4806

Buffers, effects of buffering systems on lactic acid production in rat liver slices, 13631

Buffeting loads, *see* Loads (mechanics).

Bugs, *see* names of bugs.

Build civic pride with growing plants, picture story, 5062

Builders :

- builder 1 & C, rate training manual, 1562
- publications of interest to, list, 4298

Building :

- the American city, report, 5326
- builder 1 & C rate training manual, 11562
- construction—
 - academic facilities, practices followed by Education Office in adjusting Federal grants awarded, GAO report, 5692

- by contract, Reclamation Bureau safety standards, 1363
- engineers conference, proceedings, 13393
- facilities for health research, etc., Public Health Service grants and awards, 1347, 16264

- home, publications, price list, 1329
- materials and practices, builders' hardware, Army technical manual, 176
- mental retardation research centers, etc., 11257

technology, 2-year post high school curriculum, 16951

VA hospital in southern California, hearings, 13943

- construction reports—
 - permits, housing authorized, 3833
 - quarterly public, 5228-29
 - residential alterations and repairs, 223, 2693, 3834, 11997

facility design and construction, Air Force design manual criteria and standards for Air Force construction, 5073

failure safe design for structural titanium alloys, fracture toughness characterizations etc., 7383

Federal construction safety, promote, hearings, 9482

future construction abroad, quarterly summary, 16644

Hill-Burton hospitals and related health facilities, representative costs, 14805, 16370

homes, low-cost wood, for rural America, construction manual, 8964

Building—Continued

hospital and medical facilities, general standards of construction and equipment, 7418

house construction, how to reduce costs, 10483

house construction in hazardous geologic areas, Federal involvement, hearings, 10787

housing—

- building and planning, overseas missions, bibliography, 15838
- construction in hazardous geologic areas, Federal involvement, report, 15244

HUD construction contractors and 6 craft unions investigation in Chicago (statement), 15843

industrialized building, comparative analysis of European experience, special report, 12812

materials, Federal item identification guides for supply cataloging, supplements, 2845

medical facilities construction and modernization amendments of 1969—

- hearings, 14056
- reports, 9309, 9323

methods, on permanent snow fields, 3751

military hospital construction projects, policies, procedures, and practices for developing and reviewing proposed units, Defense Dept., GAO survey, 1951

multifamily housing construction in New York City, cost and time associated with, 14396

Navy design manual, changes, 4818

notice of construction, alteration, activation, and deactivation of airports, S200

operational review guide, GSA handbook, 14776

Overmyer construction permits acquisition and transfer, hearings, 7961-62

permits, 11996

housing authorized, construction reports, 2690-91

research, at National Bureau of Standards, 17261

school construction, grants to increase educational opportunities, hearings, 15314

sewage and water works construction, contract awards, 6991

solar radiation effect on processed snow in engineering construction, 1577

State and local governments, construction expenditures, 5228-29

trafficking in broadcast station licenses and construction permits—

- hearings, 7961-62
- report, 9303

U.S. construction activities in Thailand, 1966-67, GAO report, 1952

USSR industrial development, translations, 3556

see also Construction industry.

Building machinery :

construction machinery, current industrial reports, 227, 2733, 3839, 6495, 9129

Federal item identification guides for supply cataloging, supplements, 2842

gyratory compaction of soil, pit-run clay gravel, data report, 1829

moving equipment, make sure it's clean first! plant pests often hitchhike in dirt, 15003

USSR industrial development, translations, 3556

Building management officers in Veterans Administration hospitals, nationwide, 11767

Building science series, 2282, 6037-38, 7319, 13156, 14662, 16223

- Building trades:
health and safety in Federal and federally financed construction projects, promote—
hearings, 10778
law, 15202
reports, 9293, 9322, 12269
union wages and hours, 11337
- Building U.S. agricultural exports, 12668
- Buildings:
building research at National Bureau of Standards, 17261
custodian, suggested guide for training course, 15628
demolishing, savings available in Federal share of cost, GAO report, 724
exposed wood in buildings of Puget Sound Area, influence of design, 4302
functional, planning and designing for industrial arts education, 584
high-rise, computer program to analyze dynamic response to nuclear blast loading, 13783
Historic American Buildings Survey selections, 2318, 16273-274
leasing rather than purchasing land and buildings by Defense Dept. contractors increases costs to Government, GAO report, 711
maintenance man, suggested guide for training course, 15634
multistory frame, design of structures to resist effects of atomic weapons, 11947
Operation Henre, distribution of radiation from 14 MeV neutron source in and near structures, 9063
prefabricated—
industrialized building, comparative analysis of European experience, special report, 12812
structures, Federal item identification guides for supply, supplements, 2845
safeguarding against termites, 3638
structural elements exposed to sonic booms, dynamic response, 10070
thermal insulation from wood, effects of moisture and its control, 684
see also Apartment houses—Farm buildings—Office buildings—*also* names of buildings.
- Bulford, Dorothy E., collision avoidance, bibliography, 4231
- Bulgaria:
background notes, 17399
mineral industry, minerals yearbook chapter, 13013
- Bulletin of experimental biology and medicine (USSR periodical), translations, 15923
- Bulletins, *see* Farmer's bulletins—*also* names of departments, etc., issuing bulletins—*also* subjects.
- Bullis, W. Murray:
measurement of carrier lifetime in semiconductors, etc., 1181
methods of measurement for semiconductor materials process control, and devices, 2297, 6053, 11526, 16229
use of time-shared computer system to control Hall effect experiment, 17265
- Bulloch County, Ga., soil survey reports, 8865
- Bulls, DHIA sire summary list, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, 13538
- Bultman, John D., density-gradient column as tool for measuring sea water density, 1268
- Bump, Gardiner, study of spotted tinamous and pale spotted tinamous of Argentina, 13466
- Bunker, John P., study of possible association between halothane anesthesia and postoperative hepatic necrosis, 7344
- Bunker oil, *see* Fuel oil.
- Bunks, silage feed bunks for cattle, farm building plan, 1511
- Bunn, Verne A., buying and selling a small business, 8848
- Bunting, Donald C., ship anemometer heights above mean water level, 13244
- Buoyancy:
materials, optimum packaging of hollow spheres, 14752
simulation of Gemini extravehicular tasks by neutral-buoyancy techniques, 11462
- Buoys:
National Data Buoy Systems, first scientific advisory meeting, proceedings, 16696
static configuration of tri-moored, subsurface, buoy-cable array acted on by current-induced forces, 13297
taut wire buoy array for environmental monitoring in AUTECH, 13231
- Bur, Thomas R., transformations of elastic constants for anisotropic media by successive simple rotations, 7214
- Burbank, Jeanne:
anodic oxidation of 3 representative oxides, plate materials of lead-acid cell, 1269
positive plate of lead-acid cell, critical review of recent literature, 13287
- Burch, Dean, nomination, hearings, 16880
- Burger, Warren E., nomination, hearing, 9478
- Burgess, Carter L., nomination, hearing, 14018
- Burgess, D. S., large-scale studies of gas detonations, 978
- Burgett, August L., study of human operator performance using regression analysis, 4676
- Burgin, Vera E.:
decennial index-digest, decisions and opinions of Department of Interior, 17393
decisions of United States Department of Interior, 794, 14400
- Burgin Mine, East Tintic district, Utah, micromineralogy of galena ores, 5722
- Burk, Sa Cha, *see* Bae, Sa Cha.
- Burk, Sanger M., Jr., low-speed deployment, inflation, and steady-descent characteristics of ram-air-inflated balloon recovery systems with peripheral aircoops, 13073
- Burke, Ronnie L., characteristics of beef cattle feedlots, California, Colorado, western Corn Belt, 6385
- Burke, Wallace R., nomination, hearings, 1737
- Burks, B. D., species of Spalangia Latreille in U.S. National Museum collection (Hymenoptera: Pteromalidae), 13416
- Burley tobacco, *see* Tobacco.
- Burlington, Vt., area wage survey, 11343
- Burma:
background notes, 17402
crisis fleeing, military medicine, World War II, original reports, 15061
foreign trade regulations, 1655
mineral industry, minerals yearbook chapter, 14538
- Burner fuel oil, *see* Fuel oil.
- Burnham, C. Wayne:
properties of water and aqueous solutions at high pressures and temperatures, 806
thermodynamic properties of water to 1,000°C and 10,000 bars, 8418
- Burning, *see* Arson—Combustion.
- Burning of land:
electrical ignition for prescribed burning, 11159
fire prescription for consuming ponderosa pine duff, 1923
- Burns, Russell M., yield of Choctawhatchee sand pine plantation, 9858

Burns and scalds:
 burn proof, save a life today, 8269
 retinal burn and flashblindness safe separation distances, calculation, 3707
 Burns project, Douglas-fir tussock moth control, Malheur and Ochoco National Forests, 1965 surveillance, 13295
 Burroughs, Lester H., evaluation of advanced gear-forging techniques, 11954
 Burrows, Marshall C., dynamic response of hydrazine-nitrogen tetroxide combustion to transverse gas flow, 5592
 Burton, Hillary D., FAMULUS, computer-based system for augmenting personal documentation efforts, 17036
 Burton, R. L., mass rearing corn earworm in laboratory, 10459
 Burundi:
 economic trends and their implications for United States, 8463
 Republic, background notes, 7477
 Bus drivers, see Motorbus drivers.
 Bus mechanics, see Mechanics (persons).
 Busch, Arie R., relief, 9275, 16729, 16843
 Busch, William F., extent and frequency of inundation of Perkiomen Creek flood plain from Green Lane Reservoir to Schuylkill River, 15798
 Buses, see Motorbuses.
 Bush, Harold G., multidimensional gas flow through char layers and its effects on ablation, 4752
 Bush, Harry, see Busch, Arie R.
 Bush, Joseph C., industrial wage survey, leather tanning and finishing, 11336
 Buses, see Shrubs.
 Businessmen, see Business men.
 Bushnell, D., buckling of shells of revolution with various wall constructions, basic equations and method of solution, errata, 16120
 Bushnell, Dennis M.:
 comparison of prediction methods and studies of relaxation in hypersonic turbulent nozzle-wall boundary layers, 16181
 heat-transfer and pressure distributions on spherically blunted 25° heat-angle cone at Mach 8 and angles of attack up to 90°, 1056
 Business:
 administration graduates, opportunities in General Accounting Office, 725
 administrative management course program, topic, 4923
 American business to compete successfully in world markets, National and regional export expansion councils helping, general information, 13806
 and industrial growth in 1970's (address), 16936
 and OEO, partnership against poverty, 12402
 business administration, Rural Electrification Administration career opportunities, 8841
 business-government partnership (address), 15161
 Business, Industry & Education, Inc., corporations and educators form partnership in learning, 5534
 buying and selling a small business, 8848
 census, 1967—
 area reports, announcements, 6491
 EC series, 13754-755
 geographic area coding manual, cross reference section, 221
 publication program, 10594
 construction industry, 10593
 retail trade area statistics, 6493-94, 7736, 9100-15, 10595-596, 11982-990, 13733-753, 15090
 selected services, area statistics, 13756-757, 15091-98, 16645-652

Business—Continued
 census, 1967—continued
 wholesale trade area statistics, 11991-992, 15099-112, 16653-655
 CODASYL COBOL Journal of development, 13157
 commerce, your business and ours (address), 212A
 conditions—
 digest, 2552, 2634
 national summary, 3169
 county business patterns, CBP series, 16658-663
 credit and assistance, 5625
 current business reports (series), 2723-29
 development loans, who can borrow, how to apply, 12388, 16939
 doing business with Federal Government, guide, 17068
 doing business with NATO, how U.S. companies can participate, etc., 1612
 establishing in—
 Finland, 16708
 France, 3896
 Lebanon, 312
 Luxembourg, 10650
 New Zealand, 5292
 expenses, tax information, 8446
 government influence in business decisions (remarks), 315
 helping through science and technology, State technical services, 6544
 implications of Latin American economic integration, 6543
 income tax returns, statistics, 812, 12839, 14416
 indexes, monthly, 2635
 international business publications, checklist, 7117, 7119, 8486, 10000, 15889
 let's do business, Veterans Administration Marketing Center, 17169
 loans for nonfarm enterprises, 7612
 loans, who can borrow, how to apply, EDA, 1797
 losses from operating a business, tax information, 12835
 management aids for small manufacturers, 14855
 management development program, topics, 6224
 minorities, journey into business (address), 15160
 minority groups, national strategy (remarks), 10660
 overseas business reports, 312-313, 1654-61, 3233, 3893-3904, 5287-92, 6540-43, 7799-7804, 9200-11, 10645-659, 12068-70, 15167-172, 16706-708
 overseas, great importance of maintaining U.S. trade balance (address), 16698
 private programs for minority business enterprise, directory, 13804
 problems to be overcome in preserving free enterprise system (address), 16699
 promoting business development in inner city (address), 16937
 SBA disaster loans, 1377
 service checklist, guide to Commerce Dept. publications, weekly, 2636
 services, pricing, management development program, instructor's manual, 6224
 small business—
 act, amend, hearings, 14019
 allocation of radio frequency and its effects on—
 hearings, 1710
 report, 6645
 allocation of radio frequency spectrum and its impact, hearings, 15333
 and economic development in negro community (statement), 12648
 bibliographies, 1378-79, 2448, 4924-25, 11660, 14856, 16401
 commerce export expansion activities, 15890

Business—Continued
 small business—Continued
 concessioners on Federal lands, SBA services, 7448
 crime against, report, 6735
 print as Senate document, report, 8026
 drug industry, competitive problems—
 hearings, 1745, 8095, 10920
 report, 3978
 effect of promotional practices by public
 utilities, subcommittee report, 3979
 Federal procurement area, problems, re-
 port, 454
 Government procurement position, hear-
 ings, 423
 guidebook for coordinators of manage-
 ment training, 13410
 human relations, 16402
 impact of crime, hearings, 14062
 impact of games of chance in gasoline
 marketing—
 hearings, 1712
 appendix, 1713
 report, 6646
 impact of public utilities promotional
 practices, hearings, 4003
 impact of tax-exempt fundations, hear-
 ings, appendix, 1711
 industrial standards, voluntary pro-
 grams, effect upon, report, 1696
 investment act of 1958, amend—
 hearings, 14019
 reports, 3993-994
 investment act with amendments, compi-
 lation, 354
 investment companies, capital bank, es-
 tablish, hearings, 14019
 legislation of 1969, hearings, 14019
 management series, 7452, 10359, 16402
 material handling, improvement meth-
 ods, 7452
 1969 tax guide, 4418
 problems, investigation—
 authorization—reports, 5348, 5419
 expenses, reports, 5398, 6677
 real estate, bibliography, 4925
 regional export industries and institu-
 tions over next decade, potentials and
 problems of developing, hearings,
 14100, 5466
 SBIC industry review, 7450
 selecting advertising media, guide, 10359
 silver sales limited to, Treasury Dept.,
 GAO report, 12750
 small marketers aids, 13412
 starting and managing series, 17370
 technical aids for small manufacturers,
 7453, 10360, 11661
 uniform relocation assistance and land
 acquisition, hearings, 8074
 special current business reports (series),
 3451
 statistics, Federal reserve chart book, 2873
 historical supplements, 654, 16999
 statistics, weekly, 2637
 survey of current business (periodical),
 3487
 weekly supplement, 2637
 symposium on manpower and private re-
 sources, 8542
 tax information on sale of business, 8450
 working with private enterprise, 1968 op-
 erations of Office of Private Resources,
 12863
 Business administration, *see* Business.
 Business and Defense Services Administra-
 tion:
 official texts, 2622
 press releases, 3270
 publications—
 business, 11973
 list, 212
 Business consolidations, corporate mergers
 and other problems, tax reform, press re-
 lease announcing tentative decisions, 9376,
 13945

Business Economics Office, press releases,
 3271
 Business finance companies, *see* Finance
 companies.
 Business machine mechanics, *see* Office ma-
 chine servicemen.
 Business machines, *see* Office furniture and
 equipment.
 Business men:
 black capitalism in the ghetto, backed by
 SBA and Labor Dept., 4194
 Commerce Dept. periodicals to aid business-
 men, 15179
 guide to specifications and standards of
 Federal government, 14325
 how to do business with Federal Govern-
 ment, guide, 17068
 JOBS '70, introducing Govt. programs to
 help you, 17139
 small, opportunities in world trade (ad-
 dress), 10644
 State Dept. guide to key officers of Foreign
 Service posts, 3028
 Businessmen, *see* Business men.
 Buss, Linda, manpower research institutional
 grant program, first three years, 14439
 Butchers, disadvantaged young men prepare
 for well-paying careers in maritime fleet
 training program, 4195
 Butenes, methane-fluorine-oxygen and butene-
 1-fluorine-oxygen rocket performance, non-
 equilibrium calculations, 4721
 Butler, Dale M., dismantling of railroad
 freight cars, study of improved methods
 with application to other industrial prod-
 ucts, 17335
 Butler, Gilbert L., application of strain gages
 in Bureau of Reclamation test programs,
 14825
 Butler, James N., use of amalgam electrodes
 to measure activity coefficients of metal
 salts in multicomponent salt solutions,
 2011
 Butler, Joseph, or heirs, relief, 9393
 Butte County, Calif., follow-up evaluation of
 fire hazard inspection procedures, 1916
 Buttons, and other fastening devices, etc.,
 trade and tariff information, summaries,
 1466
 Butt weld pipe, *see* Pipe and pipe fittings.
 Butze, Helmut F., performance of swirl-can
 turbojet combustors at simulated super-
 sonic combustor-inlet conditions, 4726
 Buyers, *see* Purchasing agents.
 Buying, *see* Purchasing.
 Byars, Gaye:
 Asia, southeastern, selected unclassified
 references—
 excluding Vietnam, 11908
 Vietnam, 11909
 Bye, Roger A., summary of Alaskan indus-
 tries by standard industrial classification
 and corporate classification, 14200
 Byers, David C., performance of various
 oxide-magazine cathodes in Kaufman
 thrusters, 7262
 Byrne, Robert, economic factors affecting
 level of domestic petroleum reserves, 12244
 Byrnes, Myrtis L., fur industry abroad, 10591
 Byrnes, Robert F., international negotiation,
 exchanges of scholars with Soviet Union,
 advantages and dilemmas, 16885
 Byushgens, G. S., dynamics of spatial motion
 of aircraft, 8658

C

C.A.B., *see* Civil Aeronautics Board.
 C.C.C., *see* Commodity Credit Corporation.
 C.F.S. series, 318-319, 1665, 2585, 2640,
 2892-93, 2895, 2926, 2939, 2948, 3092,
 3095, 3107-S, 3117, 3125, 3187, 3195, 3205,
 3294, 3437, 3445, 3495, 3575, 3910-16,
 5295-96, 7808-10, 9217-22, 10662-663,
 12398, 13811-816, 15182-183, 16711

- C.P.E.H.S., *see* Consumer Protection and Environmental Health Service.
 CAA, *see* Community action agencies.
 CAB, *see* Civil Aeronautics Board.
 C&MS, *see* Consumer and Marketing Service.
 Cabbage, insects, control in home gardens, 5035
 Cabinet Committee on Opportunities for Spanish-speaking People, establish to replace Interagency Committee on Mexican-American Affairs, 15400
 Cabinet Committee on Price Stability, staff studies, 4863
 Cabinets, and racks, Federal item identification guide, 530, 12356
 Federal item identification guide, 530
 Cable, Dwight R., soil temperature variations on semidesert habitat in southern Arizona, 9848
 Cables:
 cable arrays, static equilibrium configuration by use of method of imaginary reactions, 10257
 cable logging terms, glossary, 8280
 cable TV—
 actions, reports, 2826
 requests filed under FCC rules, reports, 2826
 Federal item identification guides for supply cataloging, supplements, 2844
 flat conductor, tools, fixtures, and test equipment for, compilation, 2213
 modifications for Model 104 moisture probes, 1914
 static configuration of tri-moored, subsurface, buoy-cable array acted on by current-induced forces, 13297
 see also Electric cables.
 Cabrera, Joaquin P. Palmerola, *see* Palmerola, Joaquin P.
 Cabriolet Project, *see* Project Cabriolet (field cratering experiment).
 Cacao, foreign agriculture circulars, 2902
 CACM, *see* Central American Common Market.
 Cactus, cactus-feeding insects and mites, 6070
 Cadavers, use of cadaver blood and aspects of homoplasty, selections from scientific meeting, USSR study, 12925
 Caddis flies, *see* Flies.
 Cadets, *see* Coast Guard.
 Cadle, Don D., remarks, Feb. 20, 1969, 5293
 Cadmium:
 mineral industry survey, quarterly, 2638
 minerals yearbook chapter, 13008
 nickel-cadmium batteries by farad capacitance measurements, determining state of charge, 7680
 Cadmium isotopes, even, with scattering of 12-MeV (6.7-pJ) alpha particles, absolute cross sections, 2248
 Cadmium sulfide:
 and N/P silicon solar cells as affected by hypervelocity particle impact, performance, 8625
 cuprous sulfide-cadmium sulfide heterojunction, impurity profile and energy band diagram, 6021
 Cadmium telluride, mercury cadmium telluride as 1-to-20-micro-meter wavelength infrared detector for space applications, 1121
 Cafeterias, commercial, labor utilization and operating practices, 1510
 Cagle, Carolina H., changes in time and savings deposits, 8238, 11134, 14226
 Caguas, Puerto Rico:
 flood plain information, 12451
 floods, how to avoid damage, 12486
 inundations, Spanish edition, 12545
 Caguaitas River:
 Caguas, Puerto Rico, inundations, how to avoid damage, Spanish edition, 12545
 flood plain information, 12451
 Cain, Patricia L., American education, 2590
 Cain, Dorothy S., Raman spectroscopy of polymeric materials, etc., 7387
 Calaveras Creek, San Antonio River Basin, Tex., compilations of hydrologic data, 12761, 14338
 Calcasieu River and Valley, Gulf outlet, navigation maps, 2180
 Calcia, *see* Calcium oxide.
 Calcium:
 and calcium compounds, minerals yearbook chapter, 13009
 removal from sea water by continuous counter-current ion exchange to prevent scaling of distillation equipment, errata, 14403
 Calcium carbonates, colitic aragonite and quartz sand, laboratory comparison under wave action, 10994
 Calcium oxide, effects of cyclic heating and thermal shock on hafnia stabilized with calcia, 14607
 Calcium sulfate, scale on metal surfaces, ultrasonic detection, 11284
 Calculated and flight-measured handling-qualities factors of subsonic jet transports, 1068
 Calculating machines:
 computing machines, shipments, 1958-67, patterns of industrial growth, 7734
 current industrial reports, 234
 see also Cybernetics.
 Calculations, *see* Numerical calculations.
 Calculators:
 revised calculator for Barr and Stroud dendrometer, 8302
 veterans benefits, 9375
 print additional copies, reports, 7912, 9417
 Calderon, Maria, *see* Caramanzana, Maria P.
 Caldwell, Bettye M., Project Head Start, daily program, manual for teachers, 563
 Caldwell, Warren W., Grand detour phase, 17372
 Cale, Edward G., Latin American Free Trade Association, progress, problems, prospects, 10414
 Calendar of events in Library of Congress (periodical), 2639
 Calendars:
 abbreviated calendar record, 1966-67 solar geophysical activity and events, 4225
 American Indian, 5753
 Federal general data standard, representations and codes, 6042
 international geophysical calendars, 1957-69 solar and geophysical information, 6923
 tax calendar and check list, 8441
 Calendars (of business), *see* Court of Claims. Calf, *see* Calves.
 Calfo, Frederick D., cryogenic fracture properties of thin AISI 301 60-percent cold-reduced sheet at various angles in rolling direction, 16168
 Calhoun, John W., soil survey of Ben Hill and Irwin County, Ga., 7465
 Calhoun County, Ark., community profile, 15543
 Calibration:
 calibration and test services of National Bureau of Standards, supplements, 2284, 8666, 10173, 11515, 14664
 current meters, verticle-axis type, 753
 gamma probe calibration tests, 14833
 Pegasus and Explorer XXIII detector panels, 16204
 precision measurement and calibration—electricity, low frequency, 4763
 precision measurement and calibration statistical concepts and procedures, 6046
 temperature, 6047
 principles and procedures for field strength meters, 30 Hz to 1 GHz, 8671

Calibration—Continued
 procedures for load cells and proving cells
 as weighing devices, studies, 4766
 vacuum gage, from 10⁻⁸ to 10 torr, volume-
 ratio system, evaluation, 14644
 California:
 Agricultural Stabilization and Conserva-
 tion Service—
 annual report, 11811
 programs administered by counties, by
 congressional districts, 13560
 beef cattle feedlots, characteristics, 6385
 Berkeley and San Leandro Hills, upper
 Cretaceous and lower Tertiary rocks,
 5699
 bicentennial, 6-cent commemorative post-
 age stamp (poster), 10276
 botulism outbreak, hearings, 12238
 census of business, 1967, retail trade, area
 statistics, 11984
 central and southern, floods, 15799
 climatological data, 2662
 coast pilot, 297, 7787
 dealers in trout and pondfishes, list, 11683
 descriptive petrography of 3 large granitic
 bodies in Inyo Mountains, 5721
 desert, recreation study, 12985
 disaster relief act of 1969—
 hearings, 1971, 9492
 reports, 10740, 10761, 15279
 electric rate book, 9783
 Federal outlays, report of Federal Govern-
 ment's impact by State and county,
 9537, 9587
 floods from small drainage areas, 8345
 Forest Service progress report of Cali-
 fornia Region, 15759
 ground water data, 1967—
 central coastal subregion, 12772
 Sacramento basin subregion, 12773
 San Joaquin basin subregion, 12774
 Indians, land value, compensate—
 law, 15212
 reports, 10740, 14004
 Interior Department, appointment papers,
 pamphlet to accompany microcopy, 1166
 internal revenue assessment lists, 1862-
 66, microcopy, pamphlet to accompany,
 11513
 isotopic composition of diagenetic carbon-
 ates in marine miocene formations,
 11246
 land values from independent statistical
 indicators, estimating, 1317
 landings, fish and shellfish, 2640
 national forests, 15753
 north coastal subregion, ground-water
 data, 9897
 north Lahontan subregion, ground-water
 data, 9898
 northern, sedimentation in upper Stony
 Creek basin eastern flank of coast
 ranges, 15815
 northwestern, variations in low-water
 streambed elevations at selected stream-
 gaging stations, 14373
 nutrition and human needs, hearings,
 14058
 postal map—
 northern section, 11595
 southern section, 11594
 precipitation data, hourly, 2962
 rocky intertidal, Monterey Bay to LaJolla,
 gammaridean Amphipoda, 8706
 southern, VA hospital construction, hear-
 ings, 13943
 water resources data, 1972, 4369, 15812
 Water Resources Division, Geological Sur-
 vey, activities, 727
 well data and water levels, references by
 Geological Survey, 14356
 California, Gulf of:
 environmental impact of brine effluents,
 9955
 marine magnetic and bathymetric profiles,
 13257

California, Gulf of—Continued
 physical, chemical, and biological oceanog-
 raphy of entrance, spring of 1960, 5303
 shore fishes, predatory behavior, 2479
 Californium isotopes:
 Californium-252—
 development and production (remarks),
 197
 symposium proceedings, 9066
 Calipers, mirror, new optical dendrometer,
 11180
 Callahan, James E., geologic reconnaissance
 of possible powersites at Tyee, Eagle, and
 Spur Mountain Lakes, southeastern
 Alaska, 5697
 Callen, John, papers in Library of Congress,
 register, 2126
 Callis, Linwood B., solutions of blunt-body
 stagnation-region flows with nongray
 emission and absorption of radiation by
 time-asymptotic technique, 4755
 Calorimeters, improved total hemispherical
 emittance transient calorimeter, design
 and uncertainty analysis, 8619
 Calorimetry:
 evaluation of three 1.5 meter-diameter in-
 flatable rigidized solar concentrators,
 11461
 evaluation of two cone-column solar-energy
 concentrators, 7281
 investigations of stretch-formed aluminum
 solar concentrators, 1108
 measurement of superhigh-frequency
 power, 16612
 Calumet River, pollution of interstate waters,
 Ill.-Ind., conference proceedings, 11146
 Calvert, Glenn S., design and evaluation of
 high-temperature radial turbine, final re-
 port, phase 1, 9055
 Calvert Formation, fossil marine mammals
 from Miocene Calvert formation of Mary-
 land and Virginia, title pages, etc., 8705
 Calves:
 calf crop, 6306, 14931
 dairy calves, tie stalls, farm building plan,
 16550
 elevated pens, farm building plan, 10489
 meat products, USDA institutional pur-
 chase specifications, 9503
 Calvin, Okla. motor carrier accident, 4656
 Camacho, Carlos G., nomination, hearing,
 14044
 Camber (aircraft):
 symmetrical and cambered delta wing con-
 figuration at Mach numbers from 2.9 to
 10.7, experimental and theoretical in-
 vestigation, 13086
 Cambodia:
 Army area handbook, 168
 background notes, 14893
 Camellias:
 camellias at National Arboretum, 54
 growing, 5040
 Camera stores, *see* Stores.
 Cameras:
 continuous-writing ultra-high-speed fram-
 ing camera, optical system for record-
 ing schlieren images with, 4718
 digitized ATS-1 spin scan camera data
 used in processing and display experi-
 ments, 14171
 small retail store, starting and managing,
 17370
 television, handbook for extension work-
 ers, 15002
 350° panoramic camera for underwater
 use, 13250
 Cameroon, economic trends and their impli-
 cations for United States, 12848
 Camille, food help, picture story, 13603
 Camissonia, revision of genus Camissonia
 (Onagraceae), 4795
 Camouflage:
 antiradar camouflage techniques, USSR
 study, 7138
 deceptive advertising of guarantees,
 guides against, 6987

- Camp Creek:
flood plain information, 9666
floods, metropolitan Atlanta, Ga., how to avoid damage, 12525
- Campaign Expenditures, 1968, Special Committee to Investigate, House, report, 3981
- Campaigns (political), *see* Elections.
- Campbell, A. D., natural food poisons, 5660
- Campbell, Carlos S., address, Oct. 13, 1969, 17091
- Campbell, Edward M., summaries of recent legislation affecting dentistry, 4789
- Campbell, J. Phil:
addresses, etc.—
Apr. 16, 1969, 10474
Apr. 28, 1969, 10496
June 24, 1969, 14983
nomination, hearing, 4068
- Campbell, James F.:
experimental flow properties in wake of 120° cone at Mach number 2.20, 13135
pressure distributions on 140°, 160°, and 180° cones at Mach numbers and angles of attack, 10127
supersonic aerodynamic characteristics and shock standoff distances for large-angle cones with and without cylindrical afterbodies, 14613
supersonic lifting capabilities of large-angle cones, 17244
- Campbell, R. E., production capabilities of Upper Rio Puerco soils of New Mexico, 682
- Campbell, Wallace H., induction loop antennas for geomagnetic field variation measurements, 14164
- Campgrounds, *see* Camps.
- Camping:
and picnicking in—
Eldorado National Forest, 12673, 14252
Tahoe National Forest, 14253
backpacking in national forest wilderness, a family adventure, 10493
camping in National park system, fees, facilities, etc., 10200
national forest recreation sites & areas, regulations governing use, 17016
national forests, America's playgrounds, 5058
- Camps:
campground marketing, heavy-half strategy, 17027
50-man winter camp at Tuto, Greenland, design and construction, 15651
public campgrounds on San Bernardino National Forest, general information, 14277
Youth camp safety survey act—
hearing, 12216
report, 9320
- Campus security officials workshop, 8587
- Campuses, *see* Colleges and universities.
- Can you find it? 14074
- Canada:
additional temporary diversions from Niagara River for power production purposes, agreement, 7995, 7998, 11725
Alaska-Northwest Canada, economic activities—
comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
regional, political, and communications aspects of development relations, 14195
automobile agreement, operation of Automotive products trade act of 1965, annual report, 12293
capsule facts for Armed Forces, 119
Columbia River Basin, special operating program for Canadian storage, agreement, 7523
commuter aliens, impact along Canadian border, hearings, 6351, 8935
concord grapes, Tariff Commission Investigation, 13499
- Canada—Continued
economic trends and their implications for United States, 5793, 14422
egg production tests, 1963 report, 3621
flood control payments by U.S., adjustments, agreement, 15355
foreign trade regulations, 9201
Gut Dam claims, settlement, agreement, 7506
hospital insurance, administrative expense, data, 2454
hydrology, 1964, bibliography, 7060
manpower policy and programs, 879
market profiles, 10649
meteorological research with rockets, agreement, 11724
mineral industry, minerals yearbook chapter, 2136
Niagara River water uses, agreement, 11725
pilottage services on Great Lakes and St. Lawrence Seaway, agreement, 16474
plastic mattress handles, determination of no injury to U.S. industry, 16493
release of certain lands from leased areas of Goose Bay, Newfoundland, agreement, 7509
seismic observations, underground nuclear explosions, Project Vela Uniform, agreement, 7525
telecommunication, pre-sunrise operation of certain standard (AM) radio broadcasting stations, agreement, 7508
uranium transfer, application of safeguards by United States, agreement, 8890
VLF effective ground conductivity map of Canada, etc., with revisions derived from propagation data, 10269
- Canada de la Gaviota basin, Santa Barbara County, Calif., reconnaissance of groundwater resources, 8356
- Canada geese, habitat management, 16426
- Canada-United States Interparliamentary group:
11th meeting, Senate delegation, report, 373
12th meeting, Senate delegation report, 16834
- Canadian border to Eureka, Calif., coastal warning facilities chart, 14963
- Canal Zone:
code, amend, report, 12188
gazeteer, official standard names, 12753
insurance business, annual report, 11981
mineral industry, minerals yearbook chapter, 965
- Canal Zone Government:
annual report, 7735
cash relief payments to former employees to provide cost of living adjustments, amend Canal Zone code, report, 12188
- Canals:
Canal 111 near Homestead, Fla., some hydrologic effects, 14358
linings, investigations for use of plastic films, 16392
sea level site, geological studies on route 10, agreement with Panama, 11713
- Canandaigua Lake:
Canandaigua Outlet—
flood plain information, 9667
Ontario and Wayne Counties, N.Y. floods, keep damages low by building high, 12526
- Cancer:
cancer quacks, danger, 14685
chemotherapy abstracts (periodical), 2641
chemotherapy reports (periodical), 2642-43, 7341
disease control programs, 4377
oral care for oral cancer patients, conference, 13359
oral, interprofessional symposium, 11626
progress against, 1969, report by National Advisory Cancer Council, 6064

Cancer—Continued
 reading on cancer, annotated bibliography, 4893
 regional medical programs, progress report, 4891
 screening, message to women, 13345
 services, facilities, and programs in United States, 11606
 virus cancer research, 4784
see also Tumors.

Cancer Institute, *see* National Cancer Institute.

Candy, *see* Confectionery.

Canes, trade and tariff information, summaries, 1466

Canfield, Eugene B., Civil War naval ordnance, 10239

Canine Corps, *see* Dogs.

Canine heartworm, *see* Dirofilariasis.

Canker (diseases of plants):
 basal stem canker of sugar maple, 17021
 blister rust cankers, characteristics on eastern white pine, 17025
 pitch canker of southern pines, 11162
 scleroderris canker—
 Lake States, 1968, situation report, 11177
 national forest land in Lake States, evaluation of, 11169

Canned foods, report (periodical), 2724
see also names or classes of foods canned.

Canning and preserving:
 canned deciduous fruit industry of South Africa, 15747
 deciduous fruit canning in France, 8272
 home canning of meat and poultry, 6380
see also names of commodities canned or preserved.

Cannon, Ralph S., jr., lead isotope guides for Mississippi Valley lead-zinc exploration, 14335

Canoes and canoeing, canoes, Indian trade-boats, etc., operating on Savannah River during 19th century, 14153

Canright, R. Bruce, jr., implementation and structure of COMPUTE, time-sharing calculator program, 13125

Cans:
 metal, current industrial reports, 233, 2732, 9138
 milk dispensing, sanitary standards for handling, military standard, 8133

Cantaloupes, *see* Muskmelons.

Canton, Steve, Air Force comptroller, 2573

Canton, Ohio, area wage survey, 14456

Cantrell, George K.:
 trends in aircrew attitudes and job-satisfaction—
 two-year study, 13630
 wives' report, 100

Cany Creek:
 flood plain information, 9697
 Jackson, Miss., vicinity, floods, how to avoid damage, 12527

Canyon City, Oreg.:
 flood plain information, 15655
 floods, how to avoid damage, 15659

Canyon Creek, flood plain information, 15655

Canyon de Chelly National Monument, White House (poster), 6092

Canyonlands National Park, general information, 14700

Canyons, John Wesley Powell and anthropology of canyon country, 11248

CAP (Community Action Program), *see* Economic Opportunity Office.

Capacitance:
 impurity profile and energy band diagram for cuprous sulfide-cadmium sulfide heterojunction, 6921
 measurement of liquid and two phase hydrogen densities with capacitance density meter, 10103
 nickel-cadmium batteries by farad capaci-

—tance measurements, determining state of charge, 7680

Capacitors, fixed, Federal item identification guide, 14085

Capacity (industrial), *see* Industrial capacity.

Cape Cod National Seashore, general information, 16268

Cape Cod to Sandy Hook, coast pilot, supp., 5275

Cape Henry to Key West, coast pilot, 6531

Cape May County, N.J.:
 floods, how to avoid damage, 12487-491
 tidal lands, flood plain information, 9701

Cape Romain National Wildlife Refuge, general information, 13452

Cape Spencer to Beaufort Sea, coast pilot, supplement, 5278

Caphead, Tex., railroad accident, report, 11089

Capibaribe Basin, hydrogeology of upper Capibaribe Basin, Pernambuco, Brazil, etc., 11251

Capital:
 flow in U.S. balance of payment since 1965 (paper), 650
 flow matrix, 896
 foreign trade balance in November and year-end international capital flows (statement), 1664
 gains, tax reform hearings, summary of testimony, 15341
 Government, expedite retirement from Federal intermediate credit banks, production credit associations, and banks for cooperatives, hearing, 386
 restrict transfers to foreign countries by substantial investors in U.S., etc., 14432
 short and long of it (remarks), 1480
see also Investments.

Capital assets, *see* Property.

Capital Forest, western Washington, spring season deer browsing of Douglas-fir, 4315

Capital of United States:
 airports, Federal aviation regulations, 4246-47, 16981
 conference, 1941-42, diplomatic papers—
 departmental edition, 2486
 document edition, 1659
 crime in National Capital, hearings, 6781, 9454, 14022-23
 invitation to secretaries to live and work in city of opportunity, 8535
 National Capital parks, 1969 activities, 7355
 National Capital transportation act of 1969, report, 12257
 subway system for region, Federal contribution for transit development program, hearings, 10893
 vertical distribution of water vapor over Washington, D.C., 13296

Washington, D.C.—
 National Capital Interstate Air Quality Control Region, report for consultation, 11636
 working, living, learning, playing where the action is, 13792
 water supply problems of region, hearing, 16882
 welcome to Washington, 4808
see also District of Columbia.

Capitalism:
 black capitalism in ghetto, 4194
 problems to be overcome in preserving free enterprise system (address), 16699

Capitol:
 building, extension of west central front, appropriations, hearings, 15300
 history, pictorial story, print as House document and provide additional copies, reports, 7917, 15391
 parking on House side, selected committee to regulate, create, report, 6663

- Capitol—Continued
Senate Chamber, speech reinforcement system, authorize, report, 6772
- Capitol, United States Commission for Extension of,
composition, change—
law, 16743
report, 9410
- Caplan, S. Roy, coupling phenomena in synthetic membranes, 7090
- Cap'n Frank (vessel):
coastwise privileges, authorize—
hearings, 1706
report, 9433
- Capone, Francis J., subsonic performance characteristics of large-scale, 1,075-pressure-ratio tip-turbine cruise-fan propulsion system, 14610-611
- Caprara, Alfred, relief, 12155
- Caps:
caps and plugs, Federal Item Identification guide, 15500
radiator and tank, Federal Item Identification guide, 6833, 16913
- Capsule facts for Armed Forces (series), 5100-3
- Capsules (spacecraft), *see* Spacecraft.
- Captive Nations Week, proclamations and pertinent material, print as House document, report, 15288
- Capture, ion-molecule collisions with long-lived capture complexes, computer plotting description, 14645
- Capture cross sections, *see* Neutron capture cross sections.
- Car, Martial:
oceanographic cruise summary—
dye dispersal study in Da Nang Bay, Republic of Vietnam, 13229
Ross Sea, Antarctica, 13241
- Caramanzana, Maria P., relief, 6615, 9388, 12083
- Caravaty, Raymond D., life safety from fire, guide for housing the elderly, 785
- Carbides, carbide strengthened molybdenum alloys, dynamic strain aging, 13130
see also Hafnium carbide—Niobium carbide—Silicon carbide—Tungsten carbide—Zirconium carbide.
- Carbon:
activated, used as electrodes in electrochemical demineralization of saline water, 5760
carbonaceous materials, and coal, X-ray studies, 4619
granular, activated-carbon adsorption, feasibility for waste-water renovation, 4879
molybdenum-hafnium-carbon alloys, mechanical properties and heat treatment, exploratory study, 5997
13 nuclear magnetic resonance spectra of monosubstituted pyridines, 11376
- Carbon black, mineral industry survey, quarterly, 2644
- Carbon County, Wyo., platinum and associated elements at New Rambler mine and vicinity, 1962
- Carbon dioxide:
adaptation of dogs to 60 and 90 mm. Hg CO₂ at total pressure of 260 mm. HG, 3695
and water vapor transmission, polynomial representation, 6920
compressibility factors for helium and carbon dioxide mixtures at 0°, 10°, 20°, 23°, and 35°C and to 900 psia, 5957
effects on—
lactic acid production in rat liver slices, 13631
vision of repeated exposure, 12999
exchange of tree seedlings in laboratory, assimilation chamber for measuring, 14286
lasers, in space communications, USSR study, 5855
- Carbon dioxide—Continued
progressive elevations of CO₂, response of normal man to graded exercise, 7635
salivary acid-base levels during exposure to elevated carbon dioxide atmosphere, 5929
- Carbon dioxide acidosis, *see* Acidosis.
- Carbon films, *see* Films (coatings).
- Carbon monoxide:
drug and toxic hazards in general aviation, 7724
theoretical molecular line absorption of CO in late spectral type atmospheres, 2222
- Carbonates:
dawsonite and nahcolite in Green River formation oil shales, determination, 13028
diagenetic carbonates in marine miocene formations of California and Oregon, isotopic composition, 11246
shock-wave pressure decay in polycarbonate targets impacted by cylindrical polycarbonate projectiles, 2228
- Carbonau, Pierre, or heirs, relief, 9393
- Carbonic anhydrase:
analyses on blood of subjects exposed to helium-oxygen environment at 7 atmospheres pressure, 16061
erythrocyte, maximum rate analysis, in hypercapnic guinea pigs, 13001
maximum rate kinetic analysis applied to enzyme assay data, 10046
- Carboniferous period, megafaunal and microfaunal zonation in northern Cordillera of United States, 11245
- Carbonization:
coals, Nicholas, Randolph, and Webster Counties, W. Va., 5958
wood waste, 13026
- Carbophos, methods of analyzing in aerosol containers and in air, USSR study, 15954
- Carderelli, Nathan F., barnacle cement as dental restorative adhesive, 1185
- Cardiac activity, *see* Heart.
- Cardiac output, *see* Blood.
- Cardington, Ohio, railroad accident, report, 11107
- Cardiopulmonary (heart-lung) resuscitation, 10635
- Cardiovascular-renal diseases, interviewing guides for specific disabilities, 8179
- Cardiovascular system:
application of radioisotope-fueled stirling engine to circulatory support systems, 5178
cardiovascular surgery, 1186
cardiovascular training grant program directors, National Heart Institute, report of 15th conference, 4783
death from cardiovascular disease other than coronary heart disease by sex, etc., Framingham study, 8695
disease, epidemiological investigation, Framingham study, 8686-88, 8691-96, 8689-90, 16255
disease, serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of, Framingham study, 16255
implantable power source for circulatory support devices, study, 9070, 9075
Langley cardiovascular conditioning suit concept, evaluation, 2189
- Cards, *see* Catalog cards—Guide cards.
- Cards, books, and records from Library of Congress, 16034
- Career planner, United States Navy occupational handbook, 6131
- Career Service Board for Science, improving environment for science in HEW, report, 4375
- Careers, *see* Civil service—Government officials and employees—Occupations.
- Cargo, *see* Shipments—Ships.

- Cargo handling:
 bracket for light helicopter cargo hooks, description, 14259
 cargo equipment and stevedoring gear, coastwise transportation of, amend act, hearings, 1705
 joint rate and through route problems (remarks), 16992
 rigging cargo gear, 16007
see also Materials handling.
- Caribbean area:
 Agricultural Stabilization and Conservation Service, annual report, 8951
 air piracy, report, 3988
 Caribbean area and Latin America, analytical survey of literature, 13660
 climatological data, 2662
 climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—graphs, 1842
 maps, 4221
 communism's new strategy in area, report, 6711
 Communist threat to U.S. hearings, 15467
 islands, mineral industry, minerals year-book chapter, 5939
 market profiles, 10652
- Caribou Targhee Bridge National Forests, Palisades Reservoir, recreation map, 14280
- Caries, *see* Teeth.
- Carl Hayden project, name, report, 6771
- Carl Sandburg Home National Historic Site, establish, hearing, 477
- Carleton, David A., mineral industry of Kuwait, Kuwait-Saudi Arabia Neutral Zone, and Saudi Arabia, 17184
- Carload waybill statistics, *see* Railroads.
- Carlsbad district, N. Mex., southeastern, Fifth ore zone, evaporite geology, 730
- Carlson, Charles E., stability analysis of slopes and embankment foundations, 16382
- Carlson, Gustav A., circulating currents in linear crossed-field generators and accelerators, 10147
- Carlson, T. B., experimental and theoretical investigation of striations in HIE-NE laser, 13048
- Carnations, production and sales, etc., 7529, 10500
- Carnets, *see* Forms, blanks, etc.
- Carolin, V. M., bud characteristics of Ponderosa pine related to potential damage by European pine shoot moth, 8292
- Carolina Sandhills National Wildlife Refuge, general information, 2475
- Caroline Island, plants, collection, 17371
- Caron, Paul R.:
 laboratory study of microwave radiometric techniques for re-entry plasma measurements, 13087
 plasma generation using large V-groove cathode discharge, 13085
- Carpenter, B. E., combined effects of drying, surfacing, and trimming on grade and volume of southern pine lumber, 1927
- Carpenter, J. B., catalog of genera, species, and subordinate taxa in orange subfamily Aurantioideae (Rutaceae), 13537
- Carpenter, John A., dipole shutter, transparency for eye protection, 9009
- Carpenter, Richard, relief, 6603, 9392
- Carpenter, Mrs. Scott, address, May 1, 1969, 8783
- Carpenters:
 employment outlook, 4486
 job grading standard, 7777
- Carpet beetles, *see* Beetles.
- Carpets:
 carpets and carpeting, current industrial reports, 2733
 Wilton, Brussels, velvet and tapestry carpets and rugs, Tariff Commission report, 1472
- Carposinidae, *see* Moths.
- Carr, James N.:
 business machine market in Austria, 3893
 business machines industry in Japan, 1654
- Carriers:
 common carrier services, applications, FCC, reports, 2826
 heavy-specialized carriers play important role in economy (remarks), 4430
 Interstate commerce act, amend—hearings, 4088, 15429
 report, 452
 radiotelegraph carriers, uniform system of accounts, FCC rules and regulations, 1860, 2836
 railroad, schedule of annual indices, 830, 4431
 wire-telegraph and ocean-cable, uniform system of accounts, FCC rules and regulations, 1860, 2836
see also Air carriers—Communications—Motor carriers—Pipe lines—Telephone—Water carriers.
- Carrigan, Anne L., geophysics and space data bulletin, 2938
- Carrigan, P. H., jr.:
 inventory of radionuclides in bottom sediment of Clinch River, eastern Tennessee, 11244
 radioactive waste dilution in Clinch River, eastern Tennessee, 1964
- Carrillo, Fred V.:
 mineral industry of—Idaho, 2142
 Montana, 2154
- Carroll, R. D., electrical properties of earth at EMP Simulator Site, Fort Huachuca, Ariz., 15796
- Carroll County, Ark., community profile, 15544
- Carroll County, Mo.:
 community action program, effectiveness and administration, GAO report, 11207
 Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 11213
 work experience and training project, administration and effectiveness, GAO report, 12728
- Cars, *see* Automobiles—Railroad cars.
- Carson National Forest, land conveyance to original grantees, report, 16872
- Carson Valley, Nev., water budget, 8351
- Carstens, M. R., bed forms generated in laboratory under an oscillatory flow, analytical and experimental study, 15648
- Carta, Franklin O., prediction of rotor instability at high forward speeds, stall flutter, 9053
- Carter, Arthur W., effects of jet-exhaust location on longitudinal aerodynamic characteristics of jet V/STOL model, 13113
- Carter, Edward P., annotated index of registered fungicides and nematocides, their uses in U.S., 16528
- Carter, Horace S., climates of States, Georgia, 14159
- Carter, R. S., molecular dynamics and structure of solids, 10175
- Cartesian coordinates, *see* Coordinates.
- Cartography, automated, computed programs and subroutines, 10221
see also Maps and charts.
- Cartwright, Oscar L., ten rhyparus from Western Hemisphere (coleoptera: Scarabaeidae, aphodinae), 17373
- Carver, Joseph H., shipboard Irradiator studies, final report, 5174
- Carver County, Minn., soil survey report, 2462
- CAS, *see* Contract Administration Services.
- Casa Grande Ruins National Monument, general information, 1212

Casablanca, Morocco:
 conference, 1943, diplomatic papers—
 departmental edition, 2486
 document edition, 1689

Cascade, annular, sector of highly loaded
 turbine stator blading, experimental in-
 vestigation, 2198, 8598, 10075, 16137

Cascade Range:
 national forests in Oregon, management
 direction for wilderness and primary
 recreation zones, 14269

North Cascades, Glacier Peak area, batho-
 lith and volcanoes, intrusion and erup-
 tion of late Cenozoic magmas, 14347

reclamation of nonsprouting greenleaf
 manzanita brushfields, 8307

Washington and northern Oregon, juvenile
 height growth of four upper-slope conif-
 ers, 8306

Case, J. E., upper Cretaceous and lower Ter-
 tiary rocks, Berkeley and San Leandro
 Hills, Calif., 5699

Case County, Iowa, soil survey report, 8866

Caseload statistics, State vocational rehabili-
 tation agencies, 2439

Cases, *see* Brief cases.

Caseworkers, *see* Social workers.

Cashiers:
 coin handling, classification definitions,
 2365
 employment outlook, 4488

Caskey, James E., jr., monthly weather re-
 view, 3147

Casky, Ky., railroad accident, report, 9796

Casper, V. L., study of chlorinated pesticides
 in oysters and estuarine environment of
 Mobile Bay area, 11637

Casper, Wyo., flood plain information, 12458

Cassidy, Esther C., investigations of explod-
 ing wire process as source for high tem-
 perature studies, 1174

Cassino, Italy, Salerno to Cassino, United
 States Army in World War II, 16071

Cast iron:
 current industrial reports, 2732
 pig iron, computation of cost allowance,
 8839

Castelnovo, Anthony E., effects of spectrum
 sampling on speech intelligibility, 13667

Castillo de San Marcos National Monument,
 historical research management plan, 8717

Casting molds, *see* Molds (forms).

Casting, cold-mold arc melting and casting,
 929
also see Melting.

Castings:
 iron, current industrial reports, 2732
 nonferrous, current industrial reports,
 2732
 steel, current industrial reports, 2732
see also Type.

Castle Garden, immigrant depot, 1855-90,
 history, 13183

Casualties, *see* Civilians.

Catalog cards:
 Library of Congress—
 books, authors, 3170
 books, subjects, 3069
 motion pictures and filmstrips, 3070
 music and phonorecords, 907, 16038

Cataloging:
 Atomic Energy Commission—
 descriptive cataloging guide, 3810
 report number series used by Technical
 Information Division, 13714
 reports, corporate author headings, 7706
 cataloging handbook, II series, 2840-50,
 2879-80, 2882-84
 cataloging manual M series, 526, 4123,
 5477-78, 8112, 9510-12, 10943
 conversion of retrospective catalog records
 to machine-readable forms, study, 11361
 MARC pilot project, final report, 5921
 service, bulletin, 2645

Cataloging—Continued
 supply cataloging—
 Federal manual—
 alphabetic index, 4123
 operating procedures, 5477, 8112,
 9510
 procedures for FSC classes assigned
 for integrated materiel manage-
 ment, 9511
 format, content, and preparation of
 Federal supply catalog publications,
 526, 5478

Catalogs:
 aerial photographs of geologic features in
 areas outside the United States, 7052

Air Force Academy, Colo., 10503

Census Bureau, 2631

census publications, monthly supplement,
 2632

civil defense exhibits, 6517

Coast and Geodetic Survey aeronautical
 charts and related publications, 294,
 6527, 10633

Coast Guard Academy, 12064

color reproductions, books and catalogues,
 educational materials, National Gallery
 of Art, 8679

Commerce Department publications, 1968
 supplement, 13810

copyright entries, 515-520, 1762-65, 4114-
 18, 5471-72, 9508, 14067-68, 15485-
 488, 16904

correspondence course, Coast Guard re-
 serve personnel on inactive duty, 13800

defense management education and train-
 ing, 1767

FAA headquarters recurring reports,
 15682

Federal domestic assistance programs,
 5519

Federal pesticide monitoring activities in
 effect, 1858

Federal supply catalogs—
 consolidated master cross reference list,
 1785, 8130-31, 10949, 15523
 GSA stock catalog, identification list,
 660, 2877-78, 15737
 national supplier change index, 2876
 films on oceanography, 8744

Government meteorological research and
 test facilities, 16970

Government publications, monthly catalog,
 3132

decennial cumulative index, 1951-60,
 6168

GSA forms catalog, 7038

GSA stock catalog, Federal supply catalog,
 identification list, 5649
 price changes, 8258

Labor Statistics Bureau publications,
 2121, 11350

Library of Congress—
 books, subjects, 3069
 motion pictures and filmstrips, 3070
 music and phonorecords, 907, 16038
 National Exhibition of Prints, 8566
 national register of microform masters,
 4613
 national union catalog, 3170
 manuscript collections, 2127
 register of additional locations, 16039
 subject headings, monthly supplement,
 3473

market share reports, 7117

medical and veterinary zoology, 13, 1498,
 3626, 7572-73, 10462, 13542-544

meteorological satellite data, television
 cloud photography, catalog—
 ESSA 1, 617
 ESSA 3 and ESSA 5, 1839, 6922

National Bureau of Standards, standard
 reference materials—
 catalog and price list, 17264
 quarterly insert sheets, 4761, 16224

National Library of Medicine—
 biweekly listing, 3163
 cumulative listing, 3164

Catalogs—Continued

- nautical charts and publications—
 - introduction, 10224-226
 - region 0, United States, 10231
 - region 2, Central and South America and Antarctica, 10227
 - region 5, West Africa and the Mediterranean, 10228
 - region 7, Australia and Indonesia, 10229
 - region 8, Oceania, 10230
 - Naval Academy, Annapolis, 7366
 - Naval Oceanographic Office publications, 11561
 - nineteenth-century gallery of distinguished Americans, 6097
 - ophiroid type, recent specimens in major collections in United States, 17285
 - orange subfamily Aurantiaceae (Rutaceae), genera, species, and subordinate taxa, 13537
 - parasite subject catalogues, 13542
 - programmed instructional material, Navy, 1253, 8759
 - satellite and rocket experiments, data, 4760
 - tissue typing antisera, 13169
 - trade list catalog, 8486, 10000
 - United States Army uniforms in collections of Smithsonian Institution, United States Army headgear to 1854, 8707
 - United States nautical chart catalog—
 - Atlantic and Gulf Coasts, Puerto Rico and Virgin Islands, 12060
 - Pacific Coast, Hawaii, Guam and Samoa Islands, 7789
 - water data information, index, 12777
 - water resources research, 12827
 - Werner Drewes woodcuts, exhibition, 14677
 - zoological taxa, 1205
- Catalysts:**
- light catalyzed chlorine oxidation for treatment of wastewater, investigation, 15744
 - metallic, hydrogenation of ethylene, errata, 8667
 - platinum-catalyzed combustion and ionization effect of oxygen concentration, 13284
- Catanach, W. M., jr., fatigue crack propagation in cylindrical shells, 1018**
- Catfish:**
- channel, influence of corn oil and beef tallow on growth, 10401
 - farming, new farm enterprise, 1517
 - field trials of antimycin as selective toxicant in channel catfish ponds, 10393
- Cathcart, James B., phosphate rock in Colombia preliminary report, with section on phosphate occurrence at Turmeque, 15793**
- Catherines, John J., experimental vibration characteristics of 1/40-scale dynamic model of Saturn V-launch-umbilical-tower configuration, 1093**
- Catheters, cardiac catheters, simple method for percutaneous introduction, 14497**
- Cathey, Henry M., growing, peonies, 5042**
- Cathode ray tubes:**
- discharge, measurements of properties, 5991
 - single gum color CRT, research and development, phase 1, final report, 2200
- Cathode rays, plasma generation using large V-groove cathode discharge, 13085**
- Cathodes:**
- hot cathode ionization type vacuum gages, empirical observations on sensitivity, 11484
 - improved inert-cathode/magnesium-anode sea-water battery, characteristics, 1259
 - MHD generator, emitting in spot mode, analytical and experimental studies, 16169
 - oxide-magazine, in Kaufman thrusters, performance, 7262
- Catholic War Veterans and civil defense, 12030**

- Catoctin Mountain Park, general information, 16269
- Catoe, Lynn E., UFO's and related subjects, annotated bibliography, 8995
- Catron County, N. Mex., mineral resources of Blue Range primitive area, 14328
- Cats, laboratory animal act, how it protects your cat, 11882
- Cattaraugus Creek:
 - flood plain information, 9668
 - floods, information, 12528
- Cattle:
 - aspen grove use in southwestern coniferous forests, 14281
 - beef cattle—
 - breeding, 11863
 - feedlots in California, Colorado, and western Corn Belt, 6385
 - industries of Central America and Panama, 11155
 - DHIA sire summary list, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, 13538
 - enterprise, Oglala irrigation project, Pine Ridge Reservation, S. Dak., 9949
 - farm building plans—
 - corral with curved chute for beef cattle, 7605
 - free-stall barn for cattle, 7604
 - loading ramp, 49
 - self-feeder, 6387
 - silage feed bunks, 1511
 - feeder, marketing aids, 1508
 - finishing beef cattle, 16538
 - lice, how to control them, 5047
 - on feed, 2646
 - scabies epidemiology, activities, report, 6362
 - sheep and cattle scabies eradication, cooperative State Federal program, report, 3623
 - sold for slaughter, selected markets, 2646
 - stocker and feeder, shipments, 3436
 - toxicity of some organic herbicides to, 8989
 - urea consumed by cattle on feed, 1965-66 feeding year, 4154
 - see also Cows—Livestock—Tuberculosis in animals.
- Cattle ranches, see Ranches.
- Cattle ranges, see Range lands.
- Cattoir, Francis R., beneficiation of ferrochromium by molten salt electrolysis, 4647
- CATV (community antenna television), see Television.
- CATV actions, 2826
- CATV requests filed pursuant to FCC rules, 2826
- Caughey, David A., second-order wave structure in supersonic flows, 16144
- Cauliflower, growing, general information, 5033
- Causes and Prevention of Violence, National Commission on, see National Commission on Causes and Prevention of Violence.
- Caution, cigarette smoking may be hazardous to your health, etc., 11608
- Cavalry (armored), see Armored Forces.
- Caves, flow in two-dimensional channel with rectangular cavity, 2202
- Cavicchi, Richard H., critical-speed analysis of rigid rotors on flexible foundations, 1084, 13066
- Cavitation:
 - damage and effect of fluid temperature on performance of axial-flow pump in liquid sodium, 16202
 - damage and performance of axial-flow pump in 1500° F (1089K) liquid sodium, 7296
 - damage to cobalt base alloy in sodium, effect of temperature and pressure, 11478
 - effect of fluid temperature on cavitation performance of high hub-tip axial flow pump in water to 250° F (394K), 11493

- Cavitation—Continued
 incipient and developed in liquid cryogenics, 6050
 noncavitating and cavitating performance of several low area ratio water jet pumps having throat lengths of 3.54 diameters, 7272
 prediction of thermodynamic effects based on liquid-hydrogen and freon-114 data in scaled venturis, 1116
 pump, performance for various liquids, liquid temperatures, and rotative speeds, method for prediction, 12096
 Cavities, *see* Caves.
 Cayuse Indians, *see* Umatilla Reservation.
 CCC, *see* Commodity Credit Corporation.
 CCR, *see* Civil Rights Commission.
 CEA-series, 2898, 2979
 Cecil, S. R., storage stability of civil defense shelter rations, annual report, 3759
 Cedar:
 Alaska, bibliography with abstracts, 8308
 northern white-cedar gross basal area growth is independent of stand density over wide range, 4307
 pinyon-juniper type of Arizona, herbage production differs with soil, 9851
 redcedar, eastern, managing, 8315
 Cedar River and Valley, flood plain information, 10996
 Cedar River Watershed, floods, how to avoid damage, 11001
 Celadonite, studies, 12783
 Celebes, sailing directions, change, 4820
 Celery, stalks, mechanical sizing by weight, 1509
 Celestial bodies, two-alarm sky survey, preliminary catalog, 16150
 Celestial mechanics, analysis of satellite positional uncertainty by statistical mechanics, 13050
 Celina, Tenn.:
 flood plain information, 12456
 floods, how to avoid damage, 12492
 Cells:
 cell cultures for virus vaccine production, conference, 6061
 cell frequencies, two analysis-of-variance programs for disproportionate type, 16059
 human cytomegalovirus, harmful effect of 6-azauridine on replication, USSR study, 12943
 human tumor cell kinetics, 11537
 micro lagoon technique for culture and observation of isolated mammalian cells, 1122
 microbial cell walls, biophysical studies—
 electrophoresis, apparatus and exploratory experiments, 10252
 preparation of isolated cell walls, 1257
 process for imprinting micro lagoon fields in plastic surfaces for use in cell and tissue culture, 11470
 sarcoma, osmotically induced coalescence through intercellular bridges in vitro, 4745
 scientists approach sources of life, USSR study, 15967
 see also Blood.
 Cells (electrolytic), *see* Electrolytic cells.
 Cellulose, ester reverse osmosis membranes, development, 8422
 Cellulose acetate:
 membranes—
 and ultrathin films, for reverse osmosis, characterization, 15860
 improved development for reverse osmosis, 4405
 methods to retard compaction in reverse osmosis desalination, study, 15861
 regenerative membranes, in-situ formation on porous tubular supports, 17096
 CEMA symposium on atomic power stations with fast reactors, USSR studies, 12912-913
 Cement:
 barnacle, as dental restorative adhesive, 1185
 interrelations between cement and concrete properties, 7319
 mineral industry survey, monthly, 2649
 minerals yearbook chapters, 930, 17169
 portland, causes of variation in chemical analysis and physical tests, 6037
 portland cement pastes and concretes, shrinkage, 7319
 pozzolanic raw materials resources in western United States, 16078
 trade and tariff information, summaries, 13500
 Cement masons, *see* Masons.
 Cemeteries, *see* names of cemeteries or places where located.
 Cenozoic era, magmas, intrusion and eruption as source of batholiths and volcanoes in Glacier Peak area, North Cascades, Wash., 14347
 Census:
 about census '70, general information, 13732
 agriculture, 1964, final reports, 250, 1629, 7752, 15121
 Agrostan, case study for 1970 world census of agriculture, enumeration plan and sample design, 9164
 business—
 manufactures, mineral industries, 1967 EC series, 13754-755
 publication program, 10594
 construction industry, 10593
 retail trade area statistics, 6493-94, 7736, 9100-15, 10595-596, 11982-990, 13733-753, 15090
 selected services, area statistics 13756-757, 15091-98, 16645-652
 wholesale trade area statistics, 11991-992, 15099-112, 16653-655
 census and the economy (address), 7795
 Census Bureau data files and special tabulations, guide, 10610
 census 1970—
 electronic data processing equipment for tabulating facts, 15118
 understanding the plans, 12022
 census tabulation available on computer tape series, 13771-772
 census use study reports, 13759, 16656
 comparison of classification of place of residence on death certificates and matching census records, 6208
 confidential, census confidentiality, how it grew, 11995
 confidentiality of information, amend U.S. Code, reports, 15237, 15277
 current population survey reinterview program, 3863
 dear Virginia, protesting about 1970 census (remarks), 10641
 enumeration plan and sample design, 9164
 governments, 1967—
 final reports, 219, 1616, 7737, 9116-17, 10598, 11993-994
 publication program, 10597
 topical studies, publications order form, 3830
 marital status, race, nativity, and country of origin on death certificate and matching census record, May-Aug. 1960, comparability, 10336
 mineral industries, 1967, preliminary reports, publication order form, 9119
 new census, methods for seasonal adjustment of foreign trade data, technical notes, 12020
 New Florence, case study for 1970 censuses of population and housing—
 action-oriented census program—
 concepts, 6505
 initial decisions, 6504
 pretesting, 6506

Census—Continued

- New Florencia—Continued
 administrative requirements and mapping, 12018
 data-collection operations, organization and functions of field staff, 7750
 data processing, key punching, 7751
 1970 census and legislation related thereto, hearings, 12240-242
 1970 census user guide, 9122
 1970 photo log, 13758
 offenses, repeal jail sentences for refusal to answer questions, report, 446
 population—
 1790-1890, price list of microfilm copies of schedules, 6029, 7313
 special censuses, summary, 7747, 16666
 supplementary reports, 5201
 unemployment, and housing, decennial censuses, 1970, questions, limit categories, agency reports, 9363
 population, 1960—
 final reports, 251
 people of rural America, 3862
 small-area data activities, 3439
 statistical briefs from around the world (periodical), 3461
 statistics, collection, authorization and continuation, report, 5399
 supplemental courses for case studies in surveys and censuses, ISP series, 1625, 5232
 system of certain countries in Europe, report, 16799
 tract memo, 2650
 tract papers GE-40 (series), 5208
 transportation, 1963, final volume, 9121
 transportation, 1967, advance and/or preliminary reports, truck inventory and use survey, 1617, 3831-32, 5202-7, 10599
 Uncle Sam counts, story of census '70, 15164
 vital and health statistics, 1970 census plans, study group report of Public Health Conference on Records and Statistics, 7432
see also subjects.
- Census Bureau:
 catalog, 2631
 data files and special tabulations, guide, 10610
 Director, nomination of George H. Brown, hearing, 14059
 industrial classifications, comparison of U.S. and international standards, 12021
 methodological research, 1967, papers and reports, list, 6492
 press releases, 3272
 publications, catalog, monthly supplement, 2632
 publications on governments, recurrent reports, scheduled, announcement, 249
 schedule B, 222, 3412
 Small-Area Data Advisory Committee, activities, 3439
 special censuses conducted, summary, 5222, 16667
 technical notes, 10612
 technical papers, 3863, 12021, 13775
 working papers, 1630, 12023
- Centenarians, America's social security beneficiaries who reach 100, 1388
- Center for Coordination of Foreign Manuscript Copying, news, 910, 3200
- Center for Cultural and Technical Interchange between East and West., *see* Cultural and Technical Interchange between East and West Center.
- Center for Polar Archives, 11510
- Center for Radiation Research:
 annual report, 2295
 technical highlights, 1968, fiscal year, 2291

- Centipedes, tracheotaxy as generic criterion in Hymenoptera, with proposal of 2 new Bothriogastrina genera (Chilopoda: Geophilomorpha), 13424
- CENTO, *see* Central Treaty Organization.
- Central, N. Mex., sale of part of lands of Fort Bayard Military Reservation to, hearings, 387
- Central African Republic:
 capsule facts for Armed Forces, 5103
 Chad boundary, study, 1444
 economic trends and their implications for United States, 5791
- Central America:
 agricultural prospects, report, 12420
 beef cattle industry, 11155
 characteristics of geographic distribution of shigellae changes in etiological structure of dysentery in countries of, USSR study, 12926
 climate, bibliography, 16568
 climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
 graphs, 1842
 maps, 4221
 cooperation, woven strands, account of President Johnson's trip, 2488
 east coast, sailing directions, change, 7369
 mineral industry, minerals yearbook chapter, 16081
 nautical charts and publications, catalog, 10227
 records of Dept. of State, pamphlet accompanying microcopy, political relations with U.S. and other States, 13153
 United States assistance to regional organizations, briefing papers, 12226
 west coast, sailing directions, 10232
- Central American Common Market:
 achievements and problems, 7487
 United States assistance to regional organizations, briefing papers, 12220
- Central Arizona project, rename Carl Hayden project, report, 6771
- Central city educational projects, 5535
- Central Intelligence Agency, Deputy Director, nomination of Robert E. Cushman, Jr., hearings, 9447
- Central nervous system, *see* Nervous system.
- Central States:
 cost of transporting freight, 12867
 East North, truck inventory and use survey, 5202
 East South, truck inventory and use survey, 5204
 fruit tree surveys, regional summary of selected States, 10428
 manpower projections, bibliography, 899
 north-central—
 ground-water levels, 14377
 pulpwood production and consumption by county, 11191
 regional reports, 899, 14465-466
 State and local governmental finances, 16947
 USA, how to see, English edition, 8925
 pozzolanic raw materials resources, 16078
 south central region, 1970-90 electric power, 12617
 south, home fruit garden, 11869
 union contract expirations, 14465
 veneer-log production and consumption, 4333
- West North Central division, annual survey of manufacturers 1966, statistics of States, standard metropolitan statistical areas, and large industrial counties, 3828
- West North, truck inventory and use survey, 3832
- West South Central, truck inventory and use survey, 5205
- Central Treaty Organization, general information, 4967
- Central Valley, surface water records, 4369

- Central Valley project :
 American River division, general information, 17361
 annual report, 10346
 contract negotiations for water from, Bureau of Reclamation, GAO report, 717
 Delta-Mendota Canal, biogeochemistry, 16393
 history and achievement, 16391
 San Luis unit, general information, 11653, 13403
- Centralia, Wash. :
 flood plain information, 12452
 floods, how to avoid damage, 12493
- Centralization of Federal science activities, 15226, 15289
- Centrifugal force, centrifugally stabilized disk and shell structures, some equilibrium and free vibration problems associated with, 2185, 4660
- Centrifugal pumps, *see* Pumps.
- Centrifugal separators, *see* Separators.
- Cephalopods, Cephalopoda of North Atlantic, family Cycloteuthidae, monograph, 13419
see also Squids.
- Ceramals, ceramets of uranium nitride and tungsten or molybdenum from mixed powders and from coated particles, fabrication, 7294
- Ceramic engineers, employment outlook, 4505
- Ceramics :
 ceramic properties of clay deposits of Eocene age, 7047
 ceramic transducer, USRD F43, high-pressure piezoelectric, 7389
 joining ceramics and graphite to other materials, 2212
 mechanical and thermal properties, proceedings of symposium, 8668
 12-inch hypersonic ceramic-heated tunnel, rotational and vibrational temperature measurements, 1110
- Cereal leaf beetles, *see* Beetles.
- Cereals as food, *see* Grain.
- Cerebellum, *see* Brain.
- Cerebral palsy, *see* Palsy.
- Cerebral vascular disease, *see* Blood vessels.
- Cerebrovascular system, cerebrovascular accident by sex, age and level of characteristic, etc., Framingham study, 8689
- Cerebrum, *see* Brain.
- Cerium, cerium-based inhibitor, effect on siloxane degradation at high temperature, hypothesis, 10268
- Cermets, *see* Ceramals.
- Certificates, *see* types of certificates or subject involved.
- Certification of air carriers, *see* Air carriers.
- Certified public accountants, *see* Accountants.
- Certifying your program acres, 6395
- Certitude judgments in operational environment, 6448
- Cerviniidae, *see* Copepods.
- Cesium :
 high-temperature cesium-vapor thyatron—
 development and inverter testing, 16142
 reduction of recovery time, 16133
 nonequilibrium plasmas probed by multi-frequency helium-neon laser, refractive index, particle density correlation, 11498
 portable cesium irradiator—
 operational reports, 13701
 visit to Washington State, 13702
- Cestoda, Index-catalogue, 10462
- Cestrone, Patrick P., status of safety standards, 888
- Cetacea, cetothere skeletons from Miocene Chopank formation of Maryland and Virginia, 8710
- Ceylon :
 accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 2652
 agricultural commodities, agreement, 11712
 capsule facts for Armed Forces, 1562
 economic trends and their implications for United States, 9996
 foreign trade regulations, 5287
 CPSTI, *see* Clearinghouse for Federal Scientific and Technical Information.
- CH-47, *see* Helicopters.
- Chace, Fenner A., Jr., freshwater and terrestrial decapod crustaceans of West Indies, with special reference to Dominica, 8709
- Chaco Canyon National Monument, general information, 16270
- Chad :
 background notes, 4951
 capsule facts for Armed Forces, 115
 Central African Republic boundary study, 1444
 economy, basic data, 12069
 foreign economic trends and their implications for United States, 7101
- Chad Basin, Bornu and Dikwa Emigration, northern Nigeria ground water, availability, 12757
- Chad Lake :
 basin—
 land and water resources reconnaissance study, 8833
 Nigeria, water-well corrosion, preliminary study, 14344
- Chadsey, Earl E., Jr., composite structures fabricated with advanced high-strength, high-modulus reinforcement materials, 182
- Chadwick, Howard W., evaluation of seeding rangeland with pellets, 9866
- Chafee, John H., nomination, hearing, 4072
- Chaffee, Frederic H., area handbook for the Philippines, 6437
- Chaffee, John, Jr., first manpower assessment, 8166
- Chagrin River :
 flood plain information, 9669
 Lake and Cuyahoga Counties, Ohio, flood damages need not increase, 12529
- Chains, Federal item identification guides for supply cataloging, supplements, 2844
- Chairs :
 and davenport, wood, executive office, Federal standards, 8257
 chairs and seats, classification definitions, 11588
 easy, executive office, Federal standard, cancellation, 11141
 sheep chair, farm building plan, 7601
 wood, executive office, Federal standard, cancellation, 11139
- Challenge of development, 15892
- Challenge of leadership, 13659
- Chalmette National Historical Park, master plan, 13189
- Chamber devices :
 assimilation chamber for—
 measuring carbon dioxide exchange of tree seedlings in laboratory, 14286
 outdoor measurement of photosynthesis of tree seedlings, 14285
 inertial separation chamber for controlling air pollutants emitted by cotton gin plants, 11789
 injection element radial distribution and chamber geometry, effect on acoustic-mode instability in hydrogen oxygen rocket, 14623
 injectors and ablative thrust chambers for flux-propane rocket engine with 1.2 inch throat diameter, design, 11496
- Chamberlain, E. Burnham :
 birds of—
 Francis Marlon National Forest, 5664
 southern Appalachians, 5665

- Chambers, Joseph R. :
analysis of—
flat-spin characteristics of twin-jet swept wing fighter airplane, 16166
lateral-directional stability characteristics of twin-jet fighter airplane at high angles of attack, 14616
- Chamis, Christos C., failure criteria for filamentary composites, 14618
- Champaign, Ill., academic preschool program in compensatory education, 6889
- Champlon, F. J., products of American forests, 7599
- Champlain, Lake, and its tributary basin, New York, Vermont, pollution of interstate waters, conference proceedings, 14240
- Chancelleries :
chancery act of 1964, amend, report, 12175
foreign, in D.C., regulate location, amend grandfather clause in act, report, 12175
- Chandler, Edwin E., water spectrum, 12555
- Chandler, Marjorie O. :
earned degrees conferred 1966-67, 1806, 4165
opening fall enrollment in higher education, 1968, 5549, 6887
students enrolled for advanced degrees, fall 1966, 4186, 5544, 6880
- Changing patterns of costs and structure in health sector (address), 14462
- Channel catfish, *see* Catfish.
- Channel Islands :
oceanography, Sept.-Oct. 1965, 13268
plant quarantine import requirements of Jersey, 7577
- Channels :
alluvial, response of channel to changes of hydraulic and sediment-transport variables, 15802
behavior of natural alluvial channels (series), 11247
behavior of straight open channels with movable beds, 11247
flow-induced vibrations of flat plate suspended in narrow channel, 1013
laminar dispersion in diverging channels and in concentric annuli, 9975
open, boundary effects of uniform size roughness elements in two-dimensional flow, 4214
radioactive sediment tracer tests, Houston Ship Channel, Houston, Tex., 5571
sand-channel stream, stage-discharge characteristics of weir, 12799
SEAMAP deep-sea channel, 6917
sediment transport in alluvial channels (series), 15802
speech intelligibility in stationary multipath channel, 14515
studies of flow in alluvial channels (series), 12799
tactile information channel characteristics, 17198
two-dimensional, with rectangular cavity, and their flow, 2202
- Chansler, John F., Douglas-fir beetle brood densities and infestation trends on New Mexico study area, 5677
- CHAP (Children have a potential), *see* Children.
- Chaparral :
chaparral watershed, effect of heavy late-fall precipitation on runoff, 9852
grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
watersheds, selective control of brush with soil-applied fenuron and picloram, 14283
- Chapin, Roy E., computer programming of aerospace rations, 6418
- Chaplains :
Office of Chief of Chaplains, historical review, 9036
Senate, prayers by Frederick B. Harris, 89th and 90th Congresses, print as Senate document, report, 8022
- Chapman, D. Duane, microbiologic studies of activated sludge process for recycling of human wastes, 3696
- Chapman, Paul H. :
behavioral and circulatory responses to x-irradiation delivered at 200 rads per minute to whole body and trunk only, 3710
effect of head versus trunk fission-spectrum radiation on learned behavior in monkey, 1544
- Chapman, W. E., Mesilla Park fiber sorter, instrument for sorting short fibers and long fibers in cotton lint, 6
- Chappelle, Daniel E. :
computer program for—
evaluating forestry opportunities under three investment criteria, 15774
scheduling allowable cut using either area or volume regulation during sequential planning periods, 8295
- Character, trait ratings for aircraft mechanics and administrative airmen, comparing prediction of job performance ratings from, 11888
- Character guidance, *see* Guidance.
- Charba, Jess, structure and movement of severe thunderstorms of Apr. 3, 1964 as revealed from radar and surface mesonet-work data analysis, 6911
- Charcoal :
beds, residual gas life, CO₂ pulse technique for determination, bench-scale studies, 13282
charcoal radioimmunoassay, role of insulin-inhibitory factor in human blood, 9008
coated, radioimmunoassay for plasma insulin, 6420
- Charges, *see* Electrostatics.
- Charitable institutions :
medical research and educational activities of foundations, 4785
tax exempt foundations, their impact on our economy, 13942
tax treatment, tax reform hearings—
press release announcing tentative decisions, 9376, 13945
written statements of witnesses, 7984
see also Foundations (charitable and educational).
- Charitable trusts, tax-exempt, their impact on our economy, 13942
- Charities, charitable contributions, tax treatment, press release announcing tentative decisions, 9376, 13945
- Charlton County, Mo. :
community action program, effectiveness and administration, GAO report, 11207
Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 11213
work experience and training project, administration and effectiveness, GAO report, 12728
- Charles, Bruce D., wind tunnel investigation of semirigid full-scale rotors operating at high advance ratios, 6461
- Charleston, W. Va. :
aircraft accident, 16284
area wage survey, 14454
- Charleston Naval Shipyard, S.C., concrete cores from Dry Dock No. 2, 11014
- Charlotte, N.C. :
area wage survey, 12967
flood inundation and effects of urbanization on metropolitan area, 4370
- Charring ablaters, *see* Ablating materials.

- Chartener, William H. :
addresses, etc.—
Oct. 17, 1968, 317
Oct. 18, 1968, 308
Dec. 10, 1968, 1650
Dec. 27, 1968, 1664
Jan. 2, 1969, 1651
Jan. 2, 1969, 12067
Jan. 14, 1969, 3908
Jan. 24, 1969, 3906
Jan. 29, 1969, 3907
Apr. 24, 1969, 7798
Apr. 30, 1969, 7795
May 13, 1969, 7796
June 23, 1969, 10641
Aug. 27, 1969, 13809
- Charters :
Federal—
consideration, authorization, report, 5112
nonprofit corporations, standards for granting, 15469
- Charts :
civil use of U.S. Government instrument approach procedure, 11038
Coast and Geodetic Survey, 9194
color (medical), and test strips, Federal item identification guide, 6836
graphicon in information-transmission systems of coastal radar stations, USSR study, 7149
handbook of agricultural charts, 31
modernized metric system, 2286
three different techniques of color separation applied to charting and printing, 12243
see also Maps and charts—Organization charts—*also* subjects.
- Chase, Clarence D., Kansas Woodlands, 4332
- Chase, Edith B., techniques in water investigations, 4372
- Chase, Francis S., national program of educational laboratories, 15637
- Chase, William W., urban design-athon, 591
- Chatham, C. E., Jr., wave and surge conditions after proposed expansion of Monterey Harbor, Calif., 608
- Chattanooga, Tenn., area wage survey, 2120
- Chayt, Gerald, particular class of pentahexagonal polyhedra, 6136
- Checklists :
business service, 2636
State publications, monthly, 3133
see also names of departments, etc., issuing check lists—*also* subjects.
- Checkout :
microcontrol and diagnosis of malfunctions in digital computers, 15978
survey of current debugging concepts, 14576
- Checks :
and other items, collection, regulation, amendment, 15730
check-credit plans, hearings, 459
issued to Philippine citizens, Treasury Dept. regulations, 11761
- Cheek, Randall P., American shad, 3924
- Cheektowaga, N.Y. :
flood plain information, 12477
floods, how to avoid damage, 12537
- Cheese :
EUDA cheese, store test in 4 supermarkets in Washington, D.C., suburbs, 7597
varieties and descriptions, 16535
- Chelais, Wash. :
flood plain information, 12452
floods, how to avoid damage, 12493
- Chelalis River, flood plain information, 12452
- Cheka, J. S., Operation Henre, distribution of radiation from 14 MeV neutron source in and near structures, 9063
- Chelates, chelation recovery of metal salts from concentrated brines, 9971
- Chemical analysis :
and physical tests of portland cement, causes of variation, 6037
stryene-butadiene rubber, evaluation of certain methods, 11524
urinary ammonia, automated microanalysis, 3700
- Chemical elements :
atomic-absorption methods of analysis useful in geochemical exploration, 17071
atomic transition probabilities, sodium through calcium, 17263
element distribution in—
Paleozoic black shales and associated rocks, 9885
trough and platform types of black shale and associated rocks, 9886
thermodynamic properties, tables, 10177
- Chemical engineers :
civilian career opportunities, Navy Department, 2360
employment outlook, 4505
- Chemical equilibrium, *see* Equilibrium.
- Chemical industries, *see* Chemicals.
- Chemical reactions :
and boundary layer, 13146
barium chemical release system, development, 14586
effects of, on quality of stored potatoes for fresh market and processing usage, 5148
gaseous reactants, experimental measurements of expanding storable-propellant products simulated by combustion, 14642
interaction and reactivity of acids, spectral characteristics, USSR study, 836
multiconstituent, multiphase chemical reacting systems, calculating equilibrium compositions, 10058
radiation, of olefins with methanethiol and with methylsilanes and of dimethylamine, 5159
role in mechanism of comminution of ductile metals into ultrafine powders by grinding, 1087
uranium dioxide, most abundant fission products, water and sodium, study, 1597
see also Kinetics.
- Chemical smoke generator units and smoke operations, change, 3753
- Chemical warfare :
agents of bacteriological and chemical warfare, USSR study, 15911
chemical and biological warfare, hearing, 10897
chemical and biological weapons, possible approaches for lessening threat and danger, 9479
- Chemical weapons, *see* Weapons.
- Chemicals :
adhesive bonding and miscellaneous chemical manufacture, classification definitions, 2367
adverse and toxic effects, toxicity bibliography, 3502
agricultural, registered pesticides, summary of uses, 20, 13556, 14981
benzenoid, imports, 11738
chemical plants, investment and operating costs, bibliography, 13011
chemical products, attractants for Japanese beetle, 5067
chemical role of metals in nucleic acids discussed, USSR study, 11329
chemical state effect of pyrolysis gases on heat-shield mass, 2265
chemical treatments in fish farming, how to determine quantities for, treatment tips, 1428
chemicals and chemical products, Federal item identification guides for supply cataloging, supplements, 2847
chemicals and related products, trade and tariff information, summaries, 4987, 6316, 10433

Chemicals—Continued

- chemicals, petroleum and rubber and plastics products manufacturing, industry trend, 7729
- compounds, authorized for use under USDA poultry, etc., inspection programs, list, 508, 10922
- control of brush and trees, 14391
- from sea water brines, 17093
- ground water, chemical properties and their corrosion and encrustation effects on wells, 8352
- industry—
 - employment outlook, 4580
 - reports, 2656
- inorganic—
 - current industrial reports, 2732, 9134-35
 - trade and tariff information, summaries, 4987
- lethal, open-air testing of, environmental dangers, hearings, 12221
- physicochemical properties of processes of micro-biological oxidation of petroleum hydrocarbons, USSR study, 12876
- registered agricultural pesticide chemical uses, summary, replacement pages, 7579
- soil sealing chemicals and techniques, 805
- surface chemical methods of displacing water or oils, and salvaging equipment, 8762
- symbols for packages and containers for hazardous industrial chemicals and materials, re 1949 standard, 14108
- thermodynamic properties, selected values, tables, elements 35 through 53 and compounds, 13177
- USSR industrial development, chemical industry and machinery, translations, 3555

see also Organic compounds.

Chemism and physicochemical properties of processes of microbiological oxidation of petroleum hydrocarbons, 12876

Chemistry:

- AEC basic research program (off site), summaries, 5172
- aluminum in natural water (series), 8383
- chemistry for safety man, 886
- chemistry of—
 - pesticides, USSR study, 2051
 - radiopasteurized seafoods, report, 5175
- cybernetic methods in chemistry and chemical technology, 15936
- East European abstracts, 2777
- high temperature chemistry and physics of materials, 16226
- high temperature chemistry of materials, bibliography, 6049, 10176
- journal of research, National Bureau of Standards, 3024
- nuclear standards for industry, science, government and consumer, symposium, proceedings, 7322
- physics and chemistry of nucleation, Project Skywater conference proceedings, 13401
- research program, 9079
- USSR abstracts, 3563
- wood, list of publications, 670
- see also Geochemistry—Radiochemistry—Surface chemistry.

Chemists:

- employment outlook, 4537
- pay, national survey, 4597
- Chemosterilants, aziridiny, for house flies, 2
- Chemotherapy:
 - antiviral chemotherapeutic research conducted, USSR study, 2076
 - cancer chemotherapy abstracts (periodical), 2641
 - cancer chemotherapy reports—
 - periodical, 2642-43
 - program information, 7341

Chemotherapy—Continued

- chemical therapy in virus infections, certain problems, USSR study, 15938
- preventive, of canine dirofilariasis with diethylcarbamazine, 105
- Cheng, David H., dynamic response of structural elements exposed to sonic booms, 10070
- Cheng-hual Li, see Li, Cheng-hual.
- Cheoah River, and tributary creeks in vicinity of Robbinsville, N.C., floods, 16503
- Cherington, Paul W., nomination, hearings, 9452
- Chernomor Underwater Laboratory, USSR, history, 2058
- Cherries, tart, crop production report, 11736
- Cherry Hill, N.J., population, special census of township, 244
- Cherrybark oak, see Oak.
- Chertkov, Morris, Federal regulation of transportation in Alaska, 14197
- Chervenak, J., new NRL acoustic research tank facility, 10259
- Chesapeake & Ohio Canal National Monument, general information, 6074
- Chesapeake and Ohio Ry., accidents, reports, 11087, 11094
- Chesapeake Bay:
 - coastal warning facilities chart, 14966
 - fisheries, 1967 annual summary, 13813
 - oyster mortalities, 1669
- Chesler, Mark A., planning educational change, human resources in school desegregation, 9659
- Chestnut oak, see Oak.
- Cheyenne, Wyo.:
 - flood plain information, 10997
 - land conveyance, report, 15404
- Cheyenne River Sioux Tribe, see Sioux Indians.
- Chi Jen Feng, see Feng, Chi Jen.
- Chiang-hual Li, see Li, Cheng-hual.
- Chiavetta, Kenneth J., wildlife review, 3605
- Chicago, Ill.:
 - accounts and deposits in all commercial banks in district, summary, 9760
 - aircraft accident, 6100
 - area wage survey, 892
 - Board of Trade, futures trading and open contracts, 2929
 - continuous air monitoring projects, National Air Surveillance Networks—
 - 1962-63 data tabulations and summaries, 17347
 - 1964 data tabulations and summaries, 14797
 - 1965 data tabulations and summaries, 16358
 - 1967 data tabulations and summaries, 16359
 - fresh fruit and vegetable prices, 10501
 - large commercial banks, condition report, weekly, 3596
 - riots, civil and criminal disorders, investigation, hearings, 474
- Chicago and North Western Ry., accident reports, 11079, 12626
- Chicago, Milwaukee, St. Paul and Pacific RR., accident report, 12626
- Chicago, Rock Island and Pacific RR., accident report, 11102
- Chicago, South Shore and South Bend RR., accident report, 11093
- Chickamauga and Chattanooga National Military Park, general information, 6075
- Chickens:
 - broiler marketing guide, supplement, 14066
 - chickens tested by official State agencies, monthly report, 3533
 - commercial broiler farms, costs and returns, Georgia, 15621
 - commercial broilers, production and weekly placements, 13493
 - home flock, 10484
 - layers and egg production, 13492
 - 1969 broiler marketing guide, 9505

- Chickens—Continued
 poultry record and test summary, 7568
 production, disposition, cash receipts and gross income, 1967-68, by States, 11730
 pullet chicks for broiler hatchery supply flocks, 3348
 pullet rearing house, farm building plan, 10490
 3-story broiler house, farm building plan, 7602
 toxicity of some organic herbicides to, 8989
 traits of chickens, heritabilities and of genetic and phenotypic correlations estimates, 14986
- Chicory:
 crude roots, elimination of duty—
 law, 12126
 reports, 7904, 9439 10746, 10847
- Chicot County, Ark., community profile, 15545
- Chief Joseph, American Indian, commemorative postage stamp, dedication (address), 1300
- Chiggers, chigger mite of Far East, special study, 1592
- Chihuahua, Mexico, despatches from U.S. consuls, pamphlet accompanying microcopy, 7315
- Child care, *see* Children.
- Child development, *see* Children.
- Child health, *see* Children.
- Child labor:
 agriculture, requirements under Fair labor standards act, 11770
 bulletins, 6346, 11770
 District of Columbia, employment of minors, amend act rel. to vacation work permits, report, 12184
 elementary and secondary education act title, ESEA migrant coordinators meeting, report, 8174
 provisions of Fair labor standards act, guide, 6346
 working children, 1967 and 1968 report, 10452
- Child life, *see* Children.
- Child study, *see* Children.
- Child welfare, *see* Children.
- Childhood, *see* Children.
- Children:
 acquisition and development of values, perspectives on research, conference report, 14682
 AFDC study, 1967, preliminary report from mail questionnaire, 7330
 aid to families with dependent children, Federal participation, repeal limitation in program—
 law, 12126
 reports, 9439, 10746, 10847
 born to women, changes in average number, 1960-69, advance data, 5213
 CHAP, children have a potential, Project CHAP, directory, 7630
 child benefits under OASDI, 1387
 child care—
 income tax deduction, 4407
 publications, price list, 4868
 child nutrition act of 1966—
 amend, hearings, 5374, 16877
 extend—
 hearings, 6701
 reports, 6691, 7922
 meals for needy children, provide temporary emergency assistance, report, 12187
 strengthen and expand—
 hearings, 5373
 reports, 6686, 6689
 child nutrition and school food assistance, hearings, 14058
 child nutrition in developing countries, handbook for fieldworkers, 11311
- Children—Continued
 child protection act of 1969—
 hearings, 10793
 reports, 15228, 15252
 child welfare—
 Federal grants for training of personnel, 5236
 services staff development report (series), 10364
 statistics, 252, 3868, 17266
 childhood leukemia, pamphlet for parents, 17274
 children and families in your State, social services, 6510
 children with specific learning disabilities act of 1969—
 hearings, 13924
 report, 15270
 children's books, 1968, list, 5919
 counseling, Veterans Administration, opportunity for economies, GAO report, 718
 dependent, aid to families—
 cost standards for basic needs and percent of standards met, tables, 2300, 7334, 11527
 public assistance money payments, 2299
 unemployed parents, 3540
 disadvantaged—
 conferences on improving education, report, 8173
 Head Start child development centers—
 good nutrition, 12405
 physicians and *et* Head Start, 12403
 preschool, Los Angeles County, Federal programs for benefit of, GAO report, 5687
 early childhood, bibliography, 14378
 early childhood education, 577
 selected references in field, 6854
 Eastern African Conference on Nutrition and Child Feeding, Nairobi, Kenya, proceedings, 17121
 education in federally affected areas, 1968 annual report, 14127-128
 education of handicapped children, contributions of Title 3 program, 9648
 educational services in public and private nonprofit child day care centers, Federal assistance to improve, hearings, 396
 Federal programs assisting children, 9170
 food for children in pre-school centers, summer programs, 8101
 food for families with young children, 13587
 food program first to feed pre-school youngsters, picture story, 1518
 food service programs under National school lunch act—
 meals for needy children, provide temporary emergency assistance, report, 12187
 strengthen and expand, hearings, 5373, 5374, 16877
 reports, 6686, 6689
 foods for the preschool child, 5238
 foster, military medical care, include within category of dependents, amend U.S. Code, hearings, 7949
 gifted and talented children educational assistance act—
 hearing, 13927
 report, 15269
 handicapped—
 early education assistance act policies and procedures, 6888
 educational, grant program for preparation of professional personnel, manual, 15639
 education, scholarship program, summer 1969, academic year, 1969-70, 5553
 Mexican-American, improving educational opportunities, 8171
 selected projects under P.L. 89-313 and title 6-A, ESEA, 14143

Children—Continued

Indian, education, etc., study, authorization—
hearings, 4093
report, 5416
interdisciplinary journal for professions serving children, 2657
living in federally assisted public housing, educational assistance to federally impacted areas, hearing, 7951
marriage, fertility and childspacing, 12011
me, a cry for help, 14120
mental and emotional illnesses in young child, 6185
Mexican-American, education, search for identity, 5558
nutrition, statutes, compilation, 1502
obscene material sold or offered for sale to minors, exclude from U.S. mails as non-mailable, hearings, 13936
parent and child centers, guide for development, 6849
parents as partners in Health, Education, and Welfare Dept. programs for children and youth, report, 761
play areas and equipment, Army technical manual, 6441
prelude to school, evaluation of inner city preschool program, 13778
preschool program in compensatory education, 6889-94
Project Head Start—
psychologist for child development center, 10964
training tips for staff on parent involvement, workbook, 9638
protect from flow of sex-oriented mail, legislative proposals, 7861
protection under Federal hazardous substances act, hearings, 10793
research programs, studies in progress, 6511, 15124
service programs, guides on Federal regulations governing, 9171
services under social security act, 7756
small fry smiles, guide for teaching dental health in community care programs, 14696
social security benefits for persons disabled since childhood, 10374
special milk program, extend—
hearings, 6701
reports, 6691, 7922
State child welfare services plans, staff development provisions, 10364
States can help many children and families, 15122
survivor benefits, civil service retirement system, 6520
under 6, preprimary enrollment, 4181, 10987
underwear industry, Puerto Rico, under Fair labor standards act, minimum wage rates, 11776
United Nations Children's Fund, U.S. financial participation, GAO report, 11229
utilization of psychiatric facilities, current status, trends, implications, 6187
visually handicapped, home and school programs, developments and trends, 6903
West African conference, nutrition and child feeding, proceedings, 1345
what we know about children and smoking, 2435
women by children under 5 years old, current fertility by social and economic characteristics of women and their families, census of population, 251
women by number of own children under 5 years old, 1968 and 1967, 9155
see also Adoption—Child Labor—Cripples—Day care of children—Families—Orphans.

Children's Bureau:

publication series, 3867, 6510, 7756, 15122-123
publications for parents, list, 13776
publications, list, 9173
publications, price list, 1328
research reports, 13778
statistical series, 252, 1632, 3868, 7757
Children's clothing, *see* Clothing.
Childs, A. Gary, analysis of maximum range trajectories for rocket-propelled lunar flying vehicles in uniform, gravitational field, 17228
Childs, J. T., paper, Oct. 17, 1968, 13205
Childs, T. W., ectrodema disease of panderosa pine in Pacific Northwest, 12711
Chile:
agricultural commodities, agreement, 7521, 11722
capsule facts for Armed Forces, 131
economic trends and their implications for United States, 12849
foreign economic trends and their implications for United States, 5783
labor law and practice, 5894
mineral industry, minerals yearbook chapter, 2137
selling in Chile, 10653
Chilman, Walter J., Isthmian Canal demand forecast, economic analysis of potential tonnage traffic, 14944
Chillicothe Indian School, Indian School journal (periodical), 2977
Chilopoda, *see* Centipedes.
Chimneys and fireplaces, general information, 33
China:
Communist—
Afghanistan boundary, study, 10415
agricultural situation, 6859
background notes, 2482
capsule facts for Armed Forces, 9021
cultural revolution, Soviet analysis, 12898
mainland, mineral industry, minerals yearbook chapter, 16085
Maoism, threat to socialism in China, USSR study, 8515
nuclear science in mainland China, selected bibliography, 911
Pakistan boundary, study, 2489
scientific abstracts, 2661-82
conference papers available, 10411
foreign relations of U.S., diplomatic papers—
departmental edition, 13473
document edition, 12133
mainland, gazetteer, official standard names, list, 1955-56
Republic—
background notes, 10406
economic trends and their implications for United States, 7111, 15877
loan of vessels, U.S.S. Benson, U.S.S. Hilary P. Jones and U.S.S. Plunkett extension, agreement, 14924
scientific cooperation, agreement, 7519
transfer of vessel, U.S.S. Geronimo, 7505
see also in main alphabet, Taiwan.
China Sea, *see* East China Sea—South China Sea.
Chinchilla, breed for profit, advice for amateurs, 9831
Chinle formation:
Chinle (Upper Triassic) and Sundance (Upper Jurassic) formations in north-central Colorado, 7045
stratigraphy, Navajo and Hopi Indian Reservations, 5715
China, Yau Ming, relief, 8004, 10698
Chinook salmon, *see* Salmon.
Chiotli, P., nuclear metallurgy, symposium on processing of nuclear fuels, 15075
Chip-bud method of propagating vinifera grape varieties on rootstocks, 14996

- Chiricahua National Monument, general information, 4798
- Chirlehello, John R., R & D aircraft and missiles industry, 14716
- Chiriqui, Gulf of, Panama, cultural chronology, 1382
- Chiropradists, radiation protection for podiatrists and patient, 2426
- Chiroprody:
- podiatrists employment outlook, 4539
 - regulating practice of podiatry in D.C., amend act, report, 12177
- Chiropractors, employment outlook, 4489
- Chitwood, Philip E., Japanese, Soviet, and South Korean fisheries off Alaska, development and history, 10664
- Chlorella:
- large-scale culture, glass tube apparatus for, USSR study, 833
 - pyrenoidous differential effects of light on photosynthesis and nitrogen metabolism in, 16574
- Chlorides:
- chloride vapor deposited tungsten emitter (110) and nickel collector, thermionic converter characteristics, 14587
 - titanium-plated steel in chloride environment, evaluation, 2013
 - water oxygen demand, report of study, 2434
 - see also* names of chlorides.
- Chlorine:
- chlorine in coal combustion, 10061
 - light-catalyzed chlorine oxidation for treatment of wastewater, investigation, 15744
- Chlorofluorocarbons, *see* Fluorocarbons.
- Chlorophyll, chlorophyll measurements in eastern tropical Pacific, methods used by Scripps Tuna Oceanography Program, 5302
- Cho Johnny, relief, 9273
- Choate, Grover A., forests in South Dakota, 8319
- Choha, DeForest D., three different techniques of color separation applied to charting and printing, 13243
- Choi, Sung Joo, relief, 9278
- CHOICE (Cost-effective Home Ownership and Improved Contemporary Environment), *see* Housing.
- Cholesterol serum:
- blood pressure relating to serum cholesterol, 17359
 - systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease, Framingham study, 16255
- Chong Pil Lee, *see* Lee, Chong Pil.
- Choptank formation, cetothere skeletons from Miocene of Maryland and Virginia, 8710
- Choreography:
- choreographic works, Copyright Office circular, 14071
 - cybernetics used in image conversion and dance, USSR studies, 5858
- Choristoneura conflictana, *see* Moths.
- Chortyk, O. T., rapid vacuum evaporation system, 6361
- Chouteau Lock and Dam, Verdigris River, designate, report, 15370
- Chowchilla River, Ash and Berenda Sloughs, channel capacity of reaches, in Madera County, Calif., 1963
- Chrepta, M. M., design and analysis of statistical experiment on high-voltage breakdown in vacuum, 3742
- Chrisher, Donald P., world agricultural situation, review of 1968 and outlook for 1969, 5531
- Christian, Pauline B., annotated list of photographs in Division of Agriculture and Forest Products, 13414
- Christiana, Del., floods, how to avoid damage, 12494
- Christianssted National Historic Site, general information, 1213
- Christie, Marjorie B., list of publications, Farmer Cooperative Service, 11034
- Christina River, flood plain information, 9670
- Christmas, 6-cent commemorative postage stamp (poster), 16324
- Christmas trees, directory, Oregon and Washington growers, wholesalers, and retailers, 14254
- Christopher, W. G.:
- crater studies, surface motion, 7697
 - surface motion measurements, 3803, 5170
- Chromatography:
- column and gas-liquid, to determine urinary testosterone, 3714
 - gas chromatography used to study air pollution, 15920
- Chromium:
- alloys, silicide, aluminide and boron coatings for nitridation oxidation protection, exploratory study, 11448
 - dispersion-strengthened, feasibility of producing by ball-milling in hydrogen halides, 1127
 - mineral industry survey, monthly, 2653
 - minerals yearbook chapter, 16073
 - thorium-chromium and thorium-manganese alloys, electro-deposited, preparation of thorium metal by vacuum distillation, 10066
- Chromium carbide, heats of formation, 4639
- Chromium isotopes:
- chromium-51—
 - measuring iron metabolism in hematopoietic centers, 104
 - red cell mass, red cell survival, and total blood volume, 1541
 - simultaneous determination of ⁵⁶Fe, ⁵³Cr, and ¹²⁵I, using gamma spectrometer, 89
- Chromosphere, *see* Sun.
- Chronic diseases, *see* Diseases.
- Chronology, cultural, of Gulf of Chiriqui, Panama, 1382
- Chrysanthemums:
- growing, in home garden, 5038
 - production and sales, etc., 7529, 10500
- Chrysomelidae, *see* Beetles.
- Chuang, K. C., feasibility of using optical correlation technique for detecting impending fatigue failure, 11957
- Chuechi Sea, USCGC Northwind oceanographic cruise, report, 12063
- Chugach National Forest, general information, 8274
- Chugging, to liquid-propellant rocket engines having multielement injectors, application of double-dead-time model describing, 11491
- Chukars, *see* Partridges.
- Chun, Ai Bok, relief, 6611
- Churba, Joseph:
- Fedayeen and Middle East crisis, 10521
 - Soviet penetration into Middle East, 1531
- Churches:
- church and state separated in USSR, 2077
 - District of Columbia, prohibit picketing within 500 feet of any church, report, 12172
 - inter-faith opportunity center, 10457
- Chutes, corral with curved chute for beef cattle, farm building plan, 7605
- Chyu, Wei J., power-and cross-spectra and space-time correlations of surface fluctuating pressures, 16185
- CI report, 11167
- CI series, 8863
- Ciarrocchi, Joyce D.:
- index to passenger lists of vessels arriving at Boston, 1848-91, 14659
 - passenger lists of vessels arriving at New Orleans, 1820-1902, 14658
 - quarterly abstracts of passenger lists of vessels arriving at New Orleans, 1820-75, 16218

- Ciarrocchi, Joyce D.—Continued supplemental index to passenger lists of vessels arriving at Atlantic and Gulf Coast ports (excluding New York), 16220
- Cleadas, *see* Wasps.
- Cleaddelloidea, catalogue, 12
- Cigarettes:
advertising on television, prohibit—
hearings, 9356-59, 10717
report, 10725
labeling and advertising act, amend—
hearings, 9356-59
reports, 10717, 10725
public health cigarette smoking act of 1969, reports, 10717, 10725
smoking may be hazardous to your health (poster), 11608
smoking, public health protection, etc.—
hearings, 9356-59
reports, 10717, 10725
- Cincinnati, Ohio:
area wage survey, 12969
data tabulations and summaries, continuous air monitoring projects, National Air Surveillance Networks, 14797, 16358
food distribution facilities, study, 43
Metropolitan Interstate Air Quality Control Region, 6201
police-juvenile attitude project, demonstration project in police-teacher curriculum development to improve police-juvenile relations, 872
- Cinematography, *see* Photography.
- Cinsky, Mildred E., health insurance coverage of disabled, 1395
- CINTERFOR, *see* Inter-American Center for Research and Documentation on Vocational Training.
- Circadian rhythm:
biochemical cycle functions, saturation-excision diving, 922
references, 623
- Circles, conformal mapping of interior of unit circle onto interior of class of smooth curves, 10090
- Circuit Court of Appeals, judge, nomination of Roger Robb, hearing, 12309
- Circuits:
communication, spare, Government-owned, use in Europe, by Defense Dept., GAO report, 8329
electrical ignition for prescribed burning, 11159
electricity, circuit makers and breakers, classification definitions, 4841
electronic, handbook, change, 4834
feedback, employed in commutated networks, analysis, 1111
improved Eluex process for eluting uranium from ion exchange resins, 4648
integrated for fluidic-controlled pneumatic stepping-motor system, design and performance, 7301
inverter bridge, inductors for protecting power transistors against current surges in, analysis and design, 4725
inverter-converter parallel operation, 4663
monolithic circuits, holographic microscopy for determination of failure mechanisms, 13051
monolithic microcircuits—
failure analysis, 8601
reliability assessment, 10085
parameters to be controlled for specification of microcircuits, military standard, 14106
silicon monolithic microcircuits, reliability handbook, 8600-1, 10085
symbol-oriented failure analysis in multi-component systems, 8620
- Circulars, *see* names of departments, etc., issuing circulars.
- Circulatory system, *see* Cardiovascular system.
- Cirillo, Julie A., analysis and modeling of relationships between accidents and geometric and traffic characteristics of interstate system, 16380
- Cisps, Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 11205
- Cities and towns:
Alaska, earthquake of Mar. 27, 1961, effects on various communities, 14346
alternatives to urban sprawl, legal guidelines for governmental action, 4860
better cities through better government (address), 15823
better communities, HUD programs to improve community life, 8398
build civic pride with growing plants, picture story, 5062
building the American city, report, 5326
Charlotte, N.C., flood inundation and effects of urbanization, 4370
citizen participation in model cities, 771
citizen participation today, Housing and Urban Development Department, staff conference proceedings, 9943
city government finances, 247, 12016
climate of cities, survey of recent literature, 17346
communities in action, war on poverty, 2683
communities of over 1000 population with water containing in excess of 100 ppm of total dissolved solids, 15859
community improvement, workable program, HUD handbook, 774, 14386
community solid waste practices, 1968 national survey, preliminary data analysis, 2424
community water supplies natural fluoride content, 10194
conservation in urbanizing society (remarks), 5759
consumer price index, city average, 2700
delinquency today, guide for community action, 17377
economic development of communities (remarks), 12395
economic development of inner city goals (address), 12387
EDA, building communities with jobs, 14118, 16938
engineer's role in socio-economic development of cities (speech), 766
evaluating urban transportation system, 16386
finances of municipalities and township governments, 1967, census of governments, 11994
financial institutions and urban crisis, hearings, 460
ITEW cities handbook, 12803
housing and development lending activities, U.S. participation, investigation and study, authorization, report, 375
housing and urban development—
legislation of 1969, hearings, 14017
programs, progress report, 15424
trends (periodical), 2965
housing conditions in urban poverty areas, 1315
hydrologic effects of urban growth (series), 9932
inner city—
education problems of the handicapped (remarks), 14132
prelude to school, evaluation of pre-school program, 13778
psychological dynamics of problems, seminar, 884
intergovernmental cooperation in urban development, 1967 honor awards, 4388
land use in 106 large cities, 1317
legislation of interest to Housing and Urban Development Department, summary, 5751

Cities and towns—Continued
 local government finances in selected metropolitan areas, 16669
 long-range forecast of temperatures for 19 United States cities, 11663
 mail delivery service, qualification be expressed in terms of revenue units rather than cash receipts, hearing, 1708
 making federalism work, program coordination at community level, study, 10961
 man and nature in the city, symposium, 10395
 mental health of urban America, urban programs of National Institute of Mental Health, 8809
 metropolitan areas—
 and counties, estimates of population, July 1, 1966, summary report, current population report, 12015
 comparison of taxes in District of Columbia with those of its environs and other metropolitan areas, GAO report, 5685
 definition, re-evaluation of concept and statistical practice, 12023
 1967-1968 population estimates, 15116
 projections of population, 5217
 statistics, 13773
 wage trends for occupational groups, 16031
 urban & regional information systems, support for planning, 5749
 metropolitan poverty areas, characteristics of families and persons, 10605
 metropolitan statistical areas, Federal general data standard, representations and codes, 11514
 model cities—
 hearings, 12210
 mentally retarded workshop report, 8777
 planning grant awards, 10321
 program—
 addresses, 765, 778, 1993, 8391, 14383
 extend, reports, 15297, 15371, 16792
 history and analysis of planning process in Atlanta, Ga., Seattle, Wash., Dayton, Ohio, 8401
 information, 7076
 progress, hearing, 10890
 questions and answers, 5748, 8399, 11264
 usefulness to the elderly, hearings, 456, 8051, 10883
 new town and community development, investigation and study, authorization, report, 375
 occupational earnings and wage trends in metropolitan areas, 10029-31, 14467
 population of 100 large metropolitan areas, provisional estimates, 242
 population of United States by metropolitan-nonmetropolitan residence, 1968 and 1960, 7741
 population trends, hearings, 15309
 regional medical programs and their relationships to urban community and the poor, 2427
 role of the central city (address), 15841
 science, technology, and cities, Panel on Science and Technology, 10th meeting—
 papers, 9371
 proceedings, 6730, 12148
 reprint, report, 10757
 selected information sources for urban specialists, 17080
 social and economic conditions, trends, 3860
 solutions to problems (address), 9942
 standard metropolitan statistical areas of 250,000 or more population, major concentrations of poverty, maps, 5522
 suburban programs for urban poor? (address), 17091

Cities and towns—Continued
 systems technology applied to social and community problems, 16894
 3 inner cities, 9 elementary school media centers, descriptive case studies, 10976
 toward urban land policy (remarks), 783
 transportation planning program, urbanized area directory, 13385
 urban affairs, study—
 authorization, report, 4050
 expenses, report, 4047
 urban and industrial health, environmental health series, 1333, 2415
 urban commutation alternatives, 13511
 urban designathon, 591
 urban economic development and banking system (paper), 1885
 urban education, 591
 remarks, 10990
 urban family of four persons, 3 standards of living, 5895
 urban housing needs through 1980's, analysis and projection, 2402
 urban outlook, films, filmstrips, slides, and audiotapes, bibliography, 12816
 urban poverty, facts, 14472
 urban property protection and reinsurance program, operation, hearings, 9337
 urban storm water runoff, selected abstracts, 12663
 urban transportation, research and planning projects, 14394
 urban university, challenge and response (remarks), 7078
 urban water, a HUD concern, 786
 wage trends for occupational groups, 902, 5914, 14481
 wages and related benefits, occupational earnings, supplementary practices, 8547
 water pollution aspects of urban runoff, 9838
 water supply and sewage disposal, intergovernmental responsibilities in metropolitan areas, 8944
 work and workers in urban setting, changing patterns, 14470, 16026
see also Redevelopment (city planning, etc.)—Suburbs—*also* names of cities and towns—*also* subjects.
 Citizen participation in model cities, 771
 Citizens Advisory Committee on Recreation and Natural Beauty, annual report, 10281
 Citizens of United States:
 birth abroad—
 reports, 1330
 tax guide, 2019
 customs hints for returning residents, know before you go, 14075
 foreign tax credit for U.S. citizens and resident aliens, 8431
 search and rescue operations for U.S. citizens and craft in foreign areas—
 hearing, 7959
 report, 9301
 see also American nationals.
 Citizenship:
 citizen participation today, Housing and Urban Development staff conference proceedings, 9943
 expatriation, effect of Afroyim v. Rusk, opinion of Attorney General, 11330
 Federal textbook on citizenship, 15846
 gateway to citizenship, manual of principals and procedures, 8403
 naturalization during period preceding general election, amend act, report, 9287
 publications, price list, 1327
 see also Naturalization.
 Citizenship Day, bulletin, 11274
 Citrates, separating *Escherichia coli* paracitons from *Shigella* by use of Citrate Mannitol Agar, 83

Citrus fruit:

California citrus, overseas shipping tests, on pallets and in containers, interrelations between transit temperatures, biphenyl pad placement, biphenyl content, and fruit condition, 16547

Florida, experimental forced-air precooling, 8971

foreign agriculture circulars, 2902
research conference, program and abstracts of papers, 1499, 11801

Citrus trees, indexing procedures for 15 virus diseases, 28

City expands, study of conversion of land from rural to urban use, Philadelphia, 1997

City of Refuge National Historical Park, general information, 8718

City planners:

employment outlook, 4562

HUD programs of interest to planners, 17067

selected abstracts of planning reports, 17082

urban planner in health planning, 4902

City planning, *see* Redevelopment (city planning, etc.)

Civil Aeronautics Board:

air carriers, acquisition of control, unlawful without CAB approval, amend act—

hearings, 7964, 14021

law, 15210

reports, 9308, 9415, 12163, 15241

annual report, 254

applications, etc., filed with CAB, 2596

appropriations, 1970, hearings, 16810

career opportunities for attorneys, 16674

economic regulations, 255

operations, efficiency and effectiveness, hearing, 15318

orders, 3228

press releases, 3273

regulations, 3373, 5240, 12027

United States air carriers, list, 13779

weekly summary of orders and regulations, 3599

Civil Air Patrol:

air reservist (periodical), 2575

civil defense programs, 15132

Civil aircraft, *see* Aircraft.

Civil aviation, *see* Aeronautics.

Civil defense, *see* Civilian defense.

Civil Defense Office:

annual report, 5241

annual statistical report, 7759

appropriations, 1970, hearings, 12285

FG series, 260-261A, 1636, 6515

handbook series, 262, 6516, 16676

information bulletin (periodical), 2980

leaflets, 263, 7760, 10617-619, 12028-34, 13781-782, 15131-132

miscellaneous publications MP series, 264, 1637, 6517-18, 12035

publications index, 6518

student manual SM series, 3870, 7761, 9177, 10620

technical memorandum, 10621

technical reports, 265-268, 3871, 9178, 10622, 13783, 15133, 16677

Civil disorders, *see* Riots.

Civil disturbances, *see* Riots.

Civil engineering:

basic criteria, Naval Facilities Engineering Command, design manual, 8740

career in Air Force, as a civilian, 1529

Coast Guard reports, 6535, 10636

electrical facilities safe practices handbook, Air Force pamphlet, 13615

general, resources and work force management, Air Force manual, 7624, 13612

Civil engineers:

Air Force civil engineer (periodical), 2572

civilian career opportunities—

Air Force, 1529

Navy Department, 2360

employment outlook, 4505

Navy civil engineer (periodical), 3180

Civil law:

actions involving aviation and space activities, service of process, hearings, 5453, 12306

Air Force manual, 6410

Civil procedure, service abroad of judicial and extrajudicial documents, convention, 6303

Civil rights:

act of 1964—

title 6—

analysis, 269

report of activity under, equality of opportunity in manpower programs, 877

title 7, facts, 11032

American Indian, model code to govern administration of justice, etc., establish, report, 12262

civil rights digest (periodical), 2659

complaints, who will listen? 13784

continuing action for human rights, 11701

equal opportunity, Federal laws and Executive orders relating to programs of HUD, 9944, 11269

HEW and civil rights, 9940

housing, employment, etc., hearing before

Civil Rights Commission, 10623

jobs and civil rights—

equal employment opportunity programs and activities of Federal Government, study, 7763

role of Federal Government in improving equal opportunity in employment and training, 7762

Mexican American problems, paper, 9179

veterans, State laws, digests, 5383

we hold these truths, bibliography, 13515

Civil Rights Commission:

appropriations, 1970—

hearings, 10767, 16878

report, 12192

Clearinghouse publications, 269-270, 7762-63, 13784-785

equal economic opportunities for Negroes in rural and non-metropolitan areas of Alabama, report, 270

hearing on civil rights, 10623

statement by Robert A. Wallace, 2531

press releases, 3274

publications catalog, 3872

Civil service:

adverse action, law and regulations, FPM manual supplement, 2858

annuitants, health insurance biweekly premium cost, Government to pay one-half, hearings, 9487

biological and agricultural sciences, professional careers with Federal Government, 16691

career development, selected references, 14379

career opportunities—

aerospace technology positions with NASA, 15134

Budget Bureau, 10586

education, key people, 16688

Federal Power Commission, 6948

go Government, 289

National Institutes of Health, 16252

scientific, in Agricultural Research Service, 13595

civil service and nation's progress, 5266

civil service journal, 2660

coordinated Federal wage system, Federal personnel manual supplement, 1643

employment under executive assignment system, 2856

Civil service—Continued

equal opportunity in Federal employment, newsletter, 2802
 evaluation of employees for promotion and internal placement, 12046
 examination announcements—
 administrative staff and technical services, 5246
 agricultural commodity grader (meat), 5251, 10630
 air traffic control specialists, 275
 apprentice, mechanical trades, 6523
 auditor, 1638
 biological laboratory and agricultural research technicians, 15143
 blue collar helper, 7765
 clerk, 12040
 correctional officer, Federal Prison Service, 16679
 current, 277, 1641-42, 5254-55, 7768-69, 10624, 13787, 15137, 16678
 Washington, D.C., metropolitan area, 278, 5256, 9188, 15138
 deputy marshals, 16680
 educators and librarians, 5272, 12038
 engineering equipment operators, 7771, 12039
 engineers, 6521
 firefighter, 9180
 fireman, District of Columbia, 5248
 go Government, Federal service entrance examination, 282
 historian, 13786
 hospital administration, resident, VA, 12057
 immigration patrol inspector, 1639, 7766
 journeymen in printing crafts, 6522
 junior Federal assistant, 7781, 10626, 15144
 librarians, Veterans Administration installations, 287, 12051
 maintenance and service worker, examination announcement, amendment, 5249
 manpower analyst, amendment, 13786
 medical officer, dental officer, 12052
 medical technologist, 3874-75, 5257
 messenger, amendment, 5250
 mineral industries safety officer, 12037
 mineral specialist, 5258
 motor vehicle operators, 7771, 12039
 nursing careers in Federal service, 13789
 photographers and photographers (laboratory), 15139
 postmaster, 271-274, 9182-85
 printing positions, 5265
 psychologist, 9189
 radio broadcast technician, amendment, 5247
 salary supplement, 9192
 science and engineering, 276, 9187
 scientist, 6521
 secretary-stenographer, 1640
 secretary-typist, 1640
 senior level positions in administration, technical services, etc., 5252
 social scientists, 291
 social service representative, 3886
 social worker, 3886
 stenographers and typists, 5259, 5273-74, 9181, 16693
 technical aids in science and engineering, 15145
 technical assistant, 16694
 trades and crafts, equipment operation and repair—
 blue collar workers, amendment, 6519
 journeymen and junior levels and blue collar helper, 15135
 trainees in vacation work-study programs, engineering, physical sciences, mathematical sciences, 12053
 transmitter and receiver operator and maintenance technician, 7764, 10631

Civil service—Continued

examination announcements—continued
 veterinarian trainee, summer employment, 293, 13797
 veterinary medical officer, 5264
 worker trainee, amendment, 5249
 examinations—
 directions and sample questions for test no. 26, 7770
 instructions to applicants, rural carrier, 3878
 places where held, 5271, 13795
 sample questions, 7785, 15150
 Federal, and social security protection, report, 4937
 Federal career literature, guide, 15141
 Federal career service at your service, 279
 Federal careers in Northwest, 12042-43
 Federal civilian employment in U.S. by geographic area, annual report, 5267
 Federal jobs for engineers, physical scientists, mathematicians, the big pond, 9191, 16689
 Federal jobs overseas, 15147
 Federal merit promotion policy, 12045
 Federal office assistant examination, what it is, and how it is given, for stenographer, typist, etc., 5260
 Federal personnel manual, 2854
 fund raising for voluntary health and welfare agencies, 3101
 supplements, 280-281, 1643, 2855-64, 3877, 7772-73, 9190, 12046-47, 16681
 Federal workforce outlook, 16682
 handbook X-118, 3353
 handbook X-118B, 3351
 handbook X-118C, 3352
 investigation, authorization and continuation, report, 5399
 job grading standards—
 aircraft mechanic, 7775
 automotive mechanic, 7776
 boiler plant operator, 16683
 carpenter, 7777
 cook, 3879
 electrician, 12048
 elevator operator, 12049
 engineering equipment operator, 7778
 food service worker, 284
 fork lift operator, 3880
 intermediate jobs, 3881
 janitor, 285
 laborer, 286
 laundry machine operator, 7779
 laundry worker, 1644
 motor vehicle operator, 3882
 presser, 7780
 sewage disposal plant operator, 16684
 sheet metal mechanic, 16685
 trades helper jobs, 3883
 water treatment plant operator, 16686
 job grading system for trades and labor occupations, 280-281, 3018, 3877, 7772-73, 9190, 12047, 16681
 job opportunities, local and regional examinations, 288, 5262-63, 7782, 10627, 13788, 16687
 job qualification system for trades and labor occupations, 12050
 laws, Executive orders, rules and regulations, FPM manual supplement, 2862
 medical certificates, reviewing and acting on, 2857
 national emergency standby regulations and instructions, personnel and manpower, FPM supplement, 2864
 occupational groups and series of classes, handbook, 2952
 opportunities for Federal employment, returning Peace Corps volunteers, 13791
 pay structure of Federal civil service, 12055
 position-classification standards, 3258
 postmaster positions, information, 16690
 processing personnel actions, 2855

Civil service—Continued
 public assistance caseworkers and employment security interviewers, appointments, separations, promotions, analysis, 1977
 qualification standards—
 postal field service, 3351
 wage board positions, 3352
 white collar positions under general schedule, 3353
 recruiter (periodical), 7767
 selective placement of physically handicapped, etc., handbook, 15142
 supergrade positions, additional, hearings, 12318
 veterans, best bets in Washington, D.C. area, 5253, 9186
 Washington, D.C., working, living, learning, playing where the action is, 13792
 working for U.S.A., applying for job, etc., 13790
 your first job . . . a key to your future, remember Uncle Sam when it comes to choosing an employer, 12054
see also civil service pensions—Government officials and employees.
 Civil Service Commission:
 appropriations, 1970, hearings, 9332, 12285
 Commissioner, nomination of—
 Andolesk, Ludwig Jr., hearing, 8088
 Johnson, James B., hearing, 4095A
 interagency training, programs, bulletin, 10629
 pamphlets, 289-290, 1645-46, 3884-85, 5266-70, 7783, 9191, 10628-629, 12054-56, 13790-793, 15146-149, 16688-690
 report, 1968—
 departmental edition, 3873
 document edition, 3955
 revolving fund, expand use, amend U.S. Code, report, 7931
 Civil service pensions:
 Federal classified and postal employees, retirement annuity increases, 3997, 13938
 laws, compilation, 348
 retirement benefits, FPM manual supplement, 2859
 retirement system, Federal employee facts, 12044, 15140
 retirement system, financing and benefits, amend U.S. Code—
 hearings, 6727, 12317
 reports, 7902, 7923, 15359
 survivor benefits for children, civil service retirement system, 6520
 Civil service retirement and disability fund, *see* Civil service pensions.
 Civil strife:
 collegiate dissidents and militants, revolutionary terrorism on campuses, The New Left study, memorandum, 9476
 print as Senate document, report, 9404
 frustrated counter-revolution in Czechoslovakia, 2060
 temper tantrums (remarks), 9824
 Civil War, 1861-65:
 military operations, official records of Union and Confederate Armies, guide-index, main eastern theater, index, 17260
 naval ordnance, 10239
 Civil War Centennial Commission, report to Congress, 6525
 Civil works, *see* Public works.
 Civilian agencies, *see* Government offices.
 Civilian defense:
 activities, appropriations, 1970, hearings, 9332
 American Legion and American Legion Auxiliary in civil defense, 10617
 Amvets and civil defense, 10619
 B'nai B'rith women and civil defense, 12031

Civilian defense—Continued
 Catholic War Veterans and civil defense, 12030
 Civil Air Patrol and civil defense programs, 15132
 civil defense—
 management textbook, 9177
 program, status, 12035
 shelter rations, storage stability, annual report, 3759
 vital concern to PTA, 1637
 community action for civil defense, leader's guide, workshop, 262
 company industrial civil defense manual, guide to developing, 6515
 DAV and civil defense, 12032
 a day in September, documentary motion picture on civil defense in Federal facilities, announcement, 7760
 display catalog, exhibits, 6517
 education, lifetime of learning, 12436
 fallout shelter analysts, national directory, supplement, 261
 Federal civil defense guide, 258-259, 1634-35, 5242-44, 6514, 9176
 Federal stockpile inventory, report, 2551
 Federal surplus personal property, how to acquire, 7065
 FG series, 260-261A, 1636, 6515
 Future Farmers of America and civil defense programs, 15131
 the Grange and civil defense programs, 13782
 HUD aids for fallout shelter development, 16677
 industrial defense against civil disturbances and sabotage, 11600
 industrial management, preparation for wartime and peacetime disaster in industry, 1636
 medical materials or supplies stored for national emergencies, transfer to another Federal agency before shelf life expires, report, 15402
 medicine, emergency preparedness role, 4877
 a nation prepared, the vital factor in emergency health services and civil defense, 263
 National Club Association and civil defense, action program for members, 10618
 partners in defense, Veterans of Foreign Wars, 12028
 port preparedness, film, 12034
 program planning and development, self-teaching materials, 10620
 publications, price list, 7410
 Reserve Officers Association and civil defense, 12033
 Retired Officers Association and civil defense, 12029
 selected excerpts from published congressional documents, 264
 shielding and gamma-ray production and transport, special sessions, proceedings, 15074
 State salary ranges of positions in—
 emergency planning, 762
 employment security, 11259
 student manual—
 radiological defense, planning and operations guide, 3870
 SM series, 3870, 7761, 9177, 10620
 see Air Force—Armed Forces—Government officials and employees.
 Civilian nuclear power, evaluation of:
 advanced converter reactors, 10568
 gas-cooled fast reactors, 10569
 steam-cooled fast breeder reactors, 11964
 Civilians:
 Army, living and working in Vietnam, 9050
 captives of North Vietnam, payment of claims, amend War claims act, reports, 9299, 9321

- Civilians—Continued
civilian casualty, social welfare and refugee problems in South Vietnam, hearings, 15465
civilian personnel pamphlet, 134
Defense Department, travel and transportation, permanent change of station travel, etc., general information, 134
employed at military installations, improve management of detaining, GAO report, 714
manpower management (periodical), 3023
mass casualties in national emergency, treatment, 1350
Laddling, oxidation-resistant alloy claddings for IN 100 and W1 52 superalloys, evaluation, 17232
Claims:
 against nonappropriated fund activities of U.S., jurisdiction of U.S. courts—
 hearing, 9475
 report, 10865
 Alaska native land claims settlement act of 1968, hearings, 4083, 9468
 Alaska native claims settlement act of 1969, hearings, 15321, 16887
 civil action for damages arising out of operation of aircraft—
 create exclusive Federal jurisdiction, etc., proposals, hearings, 5453
 Federal jurisdiction and body of uniform Federal law, provide, hearings, 12306
 claims and judgments against U.S., proposed supplemental appropriations to pay, 7853, 10820
 foreign claims certified to Congress, partial payments, amend U.S. Code, report, 7937
 Gut Dam, settlement, agreement with Canada, 7506
 international claims settlement act, amend—
 hearing, 10782
 report, 15272
 livestock, packers and stockyards act can help you recover losses, 13598
 military personnel and civilian employees personal property, settlement, discontinue annual report to Congress, report, 7936
 prisoners of war, civilian American citizens, and persons serving aboard U.S.S. Pueblo, held captive by forces of North Korea, payment, amend war claims act, reports, 9299, 9321
 tax refunds, appeal rights and claims, 8424
 Trust Territory of Pacific Islands against Japan, agreement, 14925
 War claims act
 amend—
 hearing, 5378
 reports, 6683, 9299, 9321
 amendments of 1969, hearing, 5378
 see also Government contracts—Unemployment insurance—also names of claimants.
Clain-Stefanelli, Vladimir, history of national numismatic collections, 7352
Clamps:
 hub clamps, Federal item identification guide, 15515
 modifications for Model 104, moisture probes, 1914
Clams:
 certified shippers, list, 2651
 inoculated with *Clostridium botulinum*, type E, effect of gamma rays, 7685, 7712
 surf, Atlantic Coast, history, etc., 320
Clar-Lo (fishing vessel):
 documentation for coastwise trade, hearings, 1706
Clarion, Pa., motor carrier accident, 13036
Clark, B. Davis, basic waste characteristics at winter recreation areas, progress report, 12654
Clark, C. F., approach, naval aviation safety review, 2598
Clark, Charles A., basic data on economy of Taiwan, 9200
Clark, Dale A., pharmacology and toxicology of propellant hydrazines, 10524
Clark, Harry L., Federal workforce outlook, 16682
Clark, Joe W., natural decay resistance of fifteen exotic woods imported for exterior use, 11182
Clark, John, studies of estuarine dependence of Atlantic Coastal fishes, 17397
Clark, John C., nomination, hearing, 9449
Clark, Leroy W., USAF instructors journal, 3551
Clark, Melville, jr., feasibility of detecting radiation scattered from plasma, 16154
Clark, Robert N., analysis of oscillations in pulse-modulated satellite attitude control systems, 13040
Clark, Ronald K., simulation of pyrolysis-gas flow through char layer during ablation, 16197
Clark, William B., naval documents of American Revolution, 17307
Clark County, Ark.:
 community profile, 15546
 water resources, 12798
Clark National Forest, seed and cone insect survey on seed production areas, 7005
Clarke, Frank E.:
 evaluation and control of corrosion and encrustation in tube wells of Indus Plains, West Pakistan, 7058, 12768
 preliminary evaluation of corrosion and encrustation mechanisms in tube wells of Indus Plains, West Pakistan, 14343
 preliminary study of water-well corrosion, Chad Basin, Nigeria, 14344
 selection of metal components for long-term development of Egypt's corrosive ground waters, 14357
Clarke, Frederick J., nomination, hearing, 5427
Clarke, James W., geophysical abstracts, 2937
Clarke, Robert G., mineral industry of New York, 2158
Clarke, Thomas H., nomination, hearing, 14018
Clarke County, Ga., soil survey report, 8867
Clarksville quadrangle, Ark., geology, 5717
Clary, Warren P., relationship of different forest floor layers to herbage production, 5675
Classical 5th-, 6th-, 7th-, and 8th-order Funge-Kutta formulas with stepsize control, 1145
Classification:
 discrimination and classification, experiment, 8760
 Government publications available to depository libraries, list of classes, 1325, 14777
 Library of Congress—
 additions and changes, quarterly list, 3029
 class K, subclass KF, law of United States, 14482
 Navy, enlisted personnel manual, 4832, 16243
 Navy officer classifications, manual, 2343, 17309
 personnel, Air Force officer classification manual, 8999
 position-classification standards, 3258
 U.S. foreign trade statistics, classifications and cross-classification, 1627
 see also Civil service—Government officials and employees—also names of substances, objects, etc., classified.
Classification definition series, 1276-97, 2361-85, 4838-47, 6156-57, 7394, 8767, 11573A-585, 13311-313, 17317
Classification tests, see Aptitude tests.

- Classified matter, *see* Confidential material.
 Classroom demonstrations of wood properties, 7611
 Clatsop County, Oreg., ground water in sand dunes, availability, 9839
 Clausen, Knud E., bark characteristics indicate age and growth rate of yellow birch, 17020
 Clay:
 construction products, current industrial reports, 2732
 dentifrice containing clay, short term clinical evaluation, 8581
 deposits of Spokane County, Wash., 5702
 desiccated clays, controlling expansion during construction, 14829
 Eocene age deposits in Jackson Purchase region, Ky., and adjacent parts of Tennessee, stratigraphic and mineralogic relations and ceramic properties, 7047
 manufacturing, 7732
 minerals yearbook chapter, 931
 Minnesota, resource for iron ore pellet bonding, field investigation and testing, 2173
 pit-run clay gravel, gyratory compaction of soil, data report, 1829
 suspensions, dielectric properties in frequency range from 50 Hz to 20 KHz, 15650
 Clay County, Ark., community profile, 15547
 Clay County, Iowa, soil survey report, 11674
 Clay County, W. Va., coal, preparation characteristics, 4638
 Clayton County Journal, relief, 16760
 Cle Elum Ranger District, Wenatchee National Forest, trail trips, 14255
 Clean air act, *see* Air pollution.
 Clean rooms, technology of, 13061
 Clean water restoration act, *see* Water pollution.
 Cleaning:
 and renovating cotton felted mattresses, Federal standard, 8256
 equipment and supplies, Federal item identification guides for supply cataloging, supplements, 2847
 general, brushing, scrubbing, classification, revised pages, 8767
 industry in Puerto Rico, data pertinent to review of minimum wage rates, 10449
 Cleaning compounds, detergents, Federal test standard method, change, 6983
 Clear Creek, Colo., Empire quadrangle geology, 14349
 Clear-cutting:
 alternate-strip, of lodgepole pine and spruce-fir timber in Colorado, response of deer, 14284
 and planting best for regenerating pine in northern Mississippi, study, 8299
 Clear Lake, Tex., hydrological conditions, 6551
 Clear Lake National Wildlife Refuge, general information, 16446
 Clearinghouse for Federal Scientific and Technical Information:
 Clearinghouse announcements in science and technology, 2661
 fast announcement (periodical), 2822
 news, 2653
 Clearinghouse for Research in Child Life, research relating to children, 6511, 15121
 Clearwater National Forest, general information, 4295
 Clearwater River:
 flood plain information, 9683
 floods, Orofino and Riverside, Idaho, 9707
 Cleary, Joseph W.:
 effects of angle of attack and bluntness on—
 laminar heating-rate distributions of 15° cone, 16190
 shock-layer properties of 15° cone, 1124
 Cleary, R. E.:
 properties of high emittance materials, 5979
 testing of high-emittance coatings, 16132
 Cleats, nailed, performance in blocking and bracing, 1913
 Cleaver, Fred, recent advances in artificial culture of salmon and steelhead trout of Columbia River, 6550
 Cleburne County, Ark., community profile, 15548
 Cleft lip, *see* Harlip.
 Cleft palate, U.S. facilities providing cleft palate services, National Institute of Dental Research directory, 16260
 Clem, Joe P., sanitation guidelines for breaded-shrimp industry, 3921
 Clemons, Clarence A., summaries of solid wastes program contracts, 14809
 Clephane, Lewis P., history of Naval Overseas Transportation Service in World War I, 16305
 Clergy:
 Protestant clergymen, Rabbis, Roman Catholic priests, employment outlook, 4490
 social security for clergymen and religious workers, tax information, 8439
 Clerk, House of Representatives, *see* House of Representatives.
 Clerks:
 additional, for all House Members, provide, report, 10744
 assignment, Washington, D.C., with State Department, 4968
 distribution, prepare yourself for postal examination, 6524
 examination announcement, 12040
 see also Disbursing clerks—Law clerks—
 Office employees—Postal employees—
 Receiving clerks—Shipping clerks.
 Cleveland, J. M., fluoride volatility, 1968,
 proceedings of Rocky Flats Fluoride Volatility Conference, 7677
 Cleveland, Ohio:
 area wage survey, 5903
 Greater Metropolitan Intrastate Air Quality Control Region, report for consultation, 6200
 shoot-out, black militants and police, 13326
 Cleveland County, Ark.:
 community profile, 15549
 water resources, 12798
 Clifford, Clark M., statement, defense program, 1970-74, and 1970 budget, 4146
 Clifton, H. Edward, sample size and meaningful gold analysis, 7056
 Climate:
 and potential evapotranspiration in Alaska by Thornthwaite's classification, 12712
 Central American countries, selected bibliography, 16568
 cities, survey of recent literature, 17346
 classification model for sprinkler irrigated agriculture, 14841
 climates of the world, 11019
 climatic atlas of United States, 1830
 climatic data sources, selected guide, 11030
 climatography of United States—
 climates of States, 14159-162
 climatic summaries of resort areas, 5575-76, 9719, 11020-21, 12559-60, 14158
 climatological data—
 by States, etc., 2662
 national summary, 2663
 climatological summaries, visibilities below ½ mile and ceilings below 200 feet—
 Atlanta Airport, Atlanta, Ga., 16489
 Friendship International Airport, Baltimore, Md., 16490
 General D. L. Logan International Airport, Boston, Mass., 16492

Climate—Continued

- climatological summaries—continued
- International Airport—
 - Anchorage, Alaska, 16488
 - Birmingham, Ala., 16491
- climatology of Atlantic tropical storms and hurricanes, errata, 616
- cold, oral acidogenic bacteria in Antarctic, 12998
- India, annotated climatological bibliography, 13620
- local climatological data, 3085
- Louisiana climate affects performance of longleaf pine, 8296
- monthly data for world, 3134
- Navy marine atlas, world, 11559
- Nepal, annotated bibliography, 4224
- Salt Lake County, Utah, 1967 hydrologic and climatologic data, 9906
- Thailand, climatological bibliography, 9004
- WB/BC series, 4224
- see also* Weather.
- Climatic atlases, *see* Atlases.
- Climatography, *see* Climate.
- Climbers, climber sets, tree and pole, military standard, 8139
- Clinch River and Valley :
 - eastern Tennessee—
 - radioactive waste dilution, 1964
 - radionuclides in bottom sediment, 7050, 11244
- Cline, Danzel R., availability of ground water in Federal Way area, King County, Wash., 9883
- Clinical Center, National Institutes of Health :
 - current clinical studies and patient referral procedures, 1187, 11536
 - description, 17275
 - dietetic manual for metabolic kitchen units, 14686
- Clinical medicine, *see* Medicine.
- Clinical psychologists, *see* Psychologists.
- Clinical Spinal Cord Injury Conference, proceedings, 6335
- Clinics :
 - ambulatory service data system, 14778
 - general clinical research centers, need for further action to determine allowable costs and recover overpayments under grants, National Institutes of Health, GAO report, 1944
 - outpatient psychiatric, provisional patient movement data, United States, 7424
 - physical fitness, 14774
 - portable clinical suction device for use in hyperbaric chambers, 16064
 - psychiatric facilities utilization by children, current status, trends, implications, 6187
 - psychiatric outpatient services, State and total U.S. annual statistical report, 2422
 - Veterans Administration, career information, dietitians, 6337
- see also* Dental clinics.
- Cline, Garner J., immigration and nationality act, with amendments and notes on related laws, 7966
- Clines, Phillip G., inductoslag melting of titanium, 11383
- Clocks and watches, watch repairmen, employment outlook, 4565
- Clones, of slash pine under intensive culture, growth and flowering, early results, 11187
- Close, Kathryn, children, interdisciplinary journal for professions serving children, 2657
- Clostridium :
 - botulinum, type E—
 - gamma ray effect on haddock and clams inoculated, 7712, 7685

Clostridium—Continued

- botulinum, type E—continued
- nonproteolytic B, and F, growth and toxin production in nonirradiated and irradiated fisheries products in temperature range, 7709-10
- significance in application of radiation-pasteurization process to Pacific crab meat and flounder, 7708, 7711
- temperature range, growth characteristics, 5146-47, 5181, 6467, 6471, 6473
- botulinum, type F, physiological studies, progress report, 5167-69, 6472
- Closures :
 - closures for containers, current industrial reports, 225, 2732, 11999
 - covers and doors, access, Federal item identification guide, 15503
 - movable or removable, classification definitions, 2362
- Cloth, *see* Textiles—*also* names of textiles.
- Clothes moths, protecting woollens against, 7589
- Clothespins, trade and tariff information, summaries, 1466
- Clothing :
 - apparel industry, employment outlook, 4570
 - apparel survey, 1967, current industrial reports, 3838
 - children's dress and related products industry in Puerto Rico, data pertinent to review of minimum wage rates, 13519
 - Clothing and equipage laundering, military standard, 5501
 - clothing and individual equipment, Federal item identification guides for supply cataloging, supplements, 2849
 - clothing money—
 - Ford family, 8981
 - Jones family, 8980
 - Turner family, 8982
 - coats and coat-like garments, Federal item identification guide, 15501
 - consumer information, publications, price list, 4868
 - dangers of flammable clothing, 13336
 - field clothing exchange operations, Army technical manual, change, 13663
 - garment industry, Puerto Rico, under fair labor standards act, minimum wage rates, 11771
 - labor in apparel industries, 16025
 - men's and boys' clothing and related products industry in Puerto Rico, data pertinent to review of minimum wage rates, 11773
 - men's apparel, current industrial reports, 2732
 - note to agents on series 2, 8984
 - polyvinylchloride exposure suit (Empress) and comparison with submarine deck exposure suit, thermal evaluation, 920
 - protective—
 - Army pamphlet, 167
 - protection against means of mass destruction, USSR study, 7127
 - styles that look good make you feel good, 8986
 - U.S. textile/apparel exports, foreign regulations affecting, 13726
 - women's apparel, current industrial reports, 2732
 - work clothing, industry wage survey, 11338
 - your money and clothing labels, 8983
- see also* Coats—Suits—*also* names or types of clothing.
- Cloud seeding, *see* Weather control.
- Clouds :
 - artificial modification, USSR study, 5841
 - cloud nucleating materials, production and delivery, Project Skywater conference proceedings, 8832

Clouds—Continued

- effects on selection of recovery sites for future earth orbital missions, 7288
- electrification processes in warm rain clouds, 9720
- electronic computer for identifying clouds, USSR study, 2084
- noctilucent clouds, observations, 10163
- silanes as cloud stabilizers, 9721
- special cloud content studies, Cabriolo project, 16627
- television photography, meteorological satellite data, catalog—
- ESSA 1, 617
- ESSA 3 and ESSA 5, 1839, 6922
- Clough, Nestor, crater characteristics of 11 metal alloys under hyper-velocity impact including effects of projectile density and target temperature, 8627
- Clubs, *see* Flying clubs—4-II clubs.
- Clutter, *see* Radar.
- CMREB, *see* Marine Research, Education, and Facilities Committee.
- Coacervates, concentration of matter and action of enzymes, 17255
- Coakley, Robert W., United States Army in World War II, War Department, global logistics and strategy, 4618
- Coal:**
 - analyses of tippie and delivered samples, 5954
 - anthracite Pennsylvania—
 - distribution 1967–68 coal year, 7205
 - mineral industry surveys, weekly, 3246
 - minerals yearbook chapter, 933, 17170
 - ash constituents, major, in U.S. coals, 7213
 - bituminous coal and lignite—
 - distribution (periodical), 2627
 - distribution and marketing, 1966–68, changing patterns, 13006
 - minerals yearbook chapter, 932
 - carbonizing properties, Nicholas, Randolph, and Webster Counties, W. Va., 5958
 - chemicals—
 - mineral industry survey, monthly, 2670
 - minerals yearbook chapter, 934
 - chlorine in coal combustion, 10061
 - Clay, Gilmer, and Lewis Counties, W. Va., coal preparation characteristics, 4638
 - coal-bearing group in Nenana coal field, Alaska, 5703
 - coal-derived humus, plant growth effects, 981
 - coal-fired gas turbine, Mines Bureau research project, test of combustor and ash separators for open-cycle plant, 14558
 - coal-fired power plants, emissions from, comprehensive summary, 17336
 - coal-steam gasification reactions, influence of residence time, temperature, and steam concentration, 13027
 - colorimetric method for arsenic in coal, 974
 - components, microscope system using automated reflectance scanning, study, application to analysis of pyrite distribution, 10057
 - foreign trade reports, 2913
 - geology of Arkansas Valley Coal Field (series), 4362–63
 - international trade, monthly inventory, 2995
 - laden in United States on vessels engaged in foreign trade, 6508
 - Mines Bureau coal program, 1968, review 11379
 - on-stream analysis, nuclear techniques, 5166
 - Pennsylvania anthracite refuse, survey of solid waste from mining and preparation, 10049

Coal—Continued

- pulverized-coal flames, flame propagation in absence of recirculation, 5960
- reaction, with steam at high pressures, 2176
- report, weekly, 3593
- resources, United States, 4354A
- spectrochemical analyses of coal ash for trace elements, 13025
- steam coals, pyrite size distribution and coal-pyrite particle association correlation with pyrite removal by float-sink methods, 4650
- Sunnyside, from Utah, use of antilossurants in making better coke from, 4653
- supply and demand for energy in United States by States and regions, 1960 and 1965, data, 5931
- systematic jointing in western part of anthracite region of eastern Pennsylvania, 4351
- X-ray studies of coal and carbonaceous materials, 4619
- see also* Ashes—Coal dust.
- Coal dust:**
 - control and health (remarks), 10307
 - control in mining, tunneling, and quarrying in United States, 5934
 - control of respirable coal mine dust by ventilation, studies, 17179
 - float coal dust clouds formation, aerodynamic aspects, 10053
- Coal Hill quadrangle, Ark., geology, 5717
- Coal mines and mining:**
 - aspects of aerodynamics of formation of float coal dust clouds, 10053
 - automatic, planning, accounting and control systems in coal industry, USSR study, 12930
 - control of respirable coal mine dust by ventilation, studies, 17179
 - fatalities, mineral industry survey, monthly, 2664
 - Federal coal mine health and safety act of 1968, recommendations urging enactment, 365
 - Federal coal mine health and safety act of 1969, reports, 15390, 16789, 16795
 - health and safety of coal miners, improve working conditions—
 - hearings, 9480, 10775, 10912, 12213, 12310, 14053, 15470
 - reports, 15390, 16789, 16795
 - HEW's 8-point program to combat coal miners' pneumoconiosis (remarks), 10307
 - injuries and employment, monthly report, 2665
 - injury experience in coal mining, 1966, safety factors, related employment, etc., analysis, 11380
 - legislation on safety of coal miners, message from the President, 6582
 - Mines Bureau coal program, 1968, review, 11379
 - underground bituminous, face ventilation, 4644
 - waste disposal costs at 2 coal mines in Kentucky and Alabama, 7208
 - see also* Mine drainage.
- Coal Research Office:**
 - annual report, 9193
 - appropriations, 1970—
 - hearings, 7946
 - reports, 12171, 15398, 16793
- Coalescence:**
 - demulsification of fuel emulsions by coalescence process, conceptual design study, 11955
 - osmotically induced, of sarcoma cells, through intercellular bridges in vitro, 4715
- Coalinga Canal, designate, report, 15278
- Coalfields, *see* Coal.

INDEX 1969

- Coast and Geodetic Survey :
aeronautical charts and related publica-
tions, catalog, 204, 1647, 6527, 10633
charts, 9194
ESSA technical reports, C&GS series, 6912,
12566
nautical chart catalog—
Atlantic and Gulf Coasts, Puerto Rico
and Virgin Islands, 12060
Pacific Coast, Hawaii, Guam and Samoa
Islands, 7789
publication series, 296, 6528, 10634, 15152
science and engineering presentations, di-
gest, 295
special publication, 6529
travel regulations, uniformed services,
1786, 3019
- Coast Guard :
activities, southeast Asia, congressional
investigation of operations and instal-
lations in Thailand and South Vietnam,
report, 410
appropriations, 1970, hearings, 16810
appropriations for vessels, etc., authori-
zation—
hearings, 6724, 12292
law, 15197
reports, 7889, 7895, 10868
auxiliary manual, 9196
civil engineering reports, 6535, 10636
construction of shore and offshore estab-
lishments, appropriation authoriza-
tion—
hearings, 6724
law, 15197
reports, 7889, 7895, 10868
court martial cases, report, 5475
engineer's digest (periodical), 2799
equipment lists, 299
general information, 298
if you have what it takes, take the Coast
Guard! 298
miscellaneous legislation, hearings, 1706
nominations, hearings, 9452
oceanographic reports, 1648, 9198, 12062-
63, 13801, 15154-156, 16697
officer limitation, increase, hearings, 1706
officers and cadets, register, 7790
organization manual, amendment, 10637
publications, price list, 6170
range design, civil engineering report, 6335
10636
recreational boating safety, responsibil-
ities, report, 9200
reserve personnel on inactive duty, cor-
respondence course catalog, 13800
small boat safety, regulations, etc., hear-
ings, 1707
travel regulations, 1786, 3019
use of military personnel in civilian-type
positions, GAO follow-up review, 11215
- Coast Guard Academy, New London :
catalogue of courses, 12064
information bulletin for candidates, 7792,
9199
- Coast Guard Auxiliary :
courtesy examination decal, requirements
and standards, check-off list for boat-
man, 300
uniform, awards, and flag code manual,
9197
volunteer non-military organization, and
new dimension to your boating activi-
ties, 5284
what's your move? public education and
safety programs, 302
- Coast Guard Reserve :
Coast Guard reservist (periodical), 2666
register of officers, 7791
- Coast Guard stations :
appropriations for vessels, etc., authori-
zation—
hearings, 6724
law, 15197
reports, 7889, 10868
- Coast Guard stations—Continued
construction of shore and offshore estab-
lishments, appropriation authoriza-
tion—
hearings, 6724, 12292
reports, 7895, 7889, 10868
- Coast pilots, United States coast pilot, 297,
5275-78, 6530-31, 7787
- Coast Ranges, eastern flank in northern
California, sedimentation in upper Stony
Creek basin, 15815
- Coastal Engineering Research Center :
miscellaneous papers, 10994, 15646
reprint R (series), 15647
technical memorandums, 4198, 6905,
10995, 14149, 15648
- Coastal flooding, Hampton, Va., 12453
- Coastal Plains, southern, and Blackbelt
areas of Arkansas, Louisiana, Oklahoma,
and Texas with rainfall of 25 to 30 inches
during frost-free period, 16440
- Coastal Plains Regional Commission :
Federal Cochairman, nomination of G.
Fred Steele, hearing, 8091
press releases, 3275
- Coastal warning facilities charts :
Canadian border to Eureka, Calif. and
Alaska, 14963
Eastport, Me. to Montauk Point, N.Y.,
14364
Eureka to Point Conception, Calif., 14965
Manasquan, N.J. to Cape Hatteras, N.C.
and Chesapeake Bay, 14966
- Coasts, coastal structures shock-pressured by
breaking waves, 1826
- Coated surfaces, *see* Surfaces.
- Coates, K., investigation of SA-501 S-IVB
auxiliary propulsion system flight anom-
alies, 10129
- Coating materials :
coating, processes and miscellaneous prod-
ucts, classification definitions, 17317
emissivity coatings for low-temperature
space radiators, 16136
flame spread tests on foam plastic mate-
rials, 601
fungus-inhibitive coatings in jungle envi-
ronment, 10263
high-emittance coatings, testing, 16132
paints and protective coatings, Army tech-
nical manual, 7665
phosphate, and inhibitors, preventive com-
pounds, military standard, 12368
protective films on mild steel, porosity,
7386
silicide, aluminide, and boride coatings for
nitridation-oxidation protection of chro-
mium alloys, exploratory study, 11448
see also Surfacing materials.
- Coats :
and coat-like garments, Federal Item Iden-
tification guide, 15501
men's and boys', industrial wage survey,
4594
- Coaxial airstream, *see* Airstream.
- Coaxial cables, *see* Electric cables.
- Cobalt :
alloy, two-phase mercury loop, corrosion,
13109
alloys, in high velocity gas stream, oxi-
dation and thermal fatigue cracking,
14624
base W1 52 superalloy, evaluation of 3 oxi-
dation-resistant alloy claddings, 17232
cavitation damage to cobalt base alloy in
sodium, effect of temperature and pres-
sure, 11478
CO₂ laser development for space applica-
tions, survey, 1057
cobalt-60 gamma irradiation, dose rate
effect on LD 50/30 in mice exposed,
3704
mineral industry survey—
monthly, 2667
quarterly, 2668

Cobalt—Continued
spectrophotometric procedure for determination of trace amounts of cobalt in ferrous alloys, 10266

Cobalt isotopes, acute cobalt-60 irradiation, relative resistance of gerbils and rats, 10533

Cobb, Bart B., comparative study of air traffic trainee aptitude-test measures involving Navy, Marine Corps, and FAA controllers, 7723

Cobban, William A., late Cretaceous ammonites *Scaphites beei* Reeside and *Scaphites hippecrepis* (DeKay), 5723

Cobbs, Howell, D., differential effects of light on photosynthesis and nitrogen metabolism in *Chlorella pyrenoidosa*, 16574

COBOL, *see* Electronic computers.

Cochise County, Ariz., geohydrology and water utilization, 7059

Cochran, Corbie F., jr., relief, 6605

Cochran, P. H.:
can thinning slash cause nitrogen deficiency in pumice soils of central Oregon? 680
thermal properties and surface temperatures of seedbeds, guide for foresters, 12721

Cochran, Thomas H., impulsive motion on flat plate pulsed with uniform heat flux, 10151

Cochran, William, mineral industry of New Hampshire, 5941, 17187

Cochrane, Henry C., papers in Marine Corps Museum, 1841-1957 and undated register, 16043

Cocke, Joseph B., inertial separation chamber for controlling air pollutants emitted by cotton gin plants, 11759

Cockpits (aircraft):
environmental data for XB-70 airplanes, summary, 16189
removing seawater salt residues by surface chemical methods, field experience, 8762

Cockroaches, how to control them, 14994

Cocks (plumbing):
drain cocks, and valves, general purpose, Federal item identification guide, 4131, 8129, 16920

Cocoa, trade and tariff information, summaries, 10431

CODASYL, *see* Electronic data processing systems.

Code name, Spider, flight of Apollo 9, 8605

Code of Federal regulations, 2669, 5619-34, 6949-70, 8215-34, 9797-9820, 11110-132, 12628-634
general provisions, 11110
index, 12628
see also for titles, chapters, etc., of the Code printed separately, subject involved.

Codes:
character information coded in 6, 7, and 8 bits, evolving conventions and standards, 10179
code transformation task (COTRAN), effects of practice and work load on performance of, 2209
coding schemes based on strategic value, examples, 4707
Federal general data standard, representations and codes—
calendar date identification, 6042
counties of States of United States, 6044
metropolitan statistical areas, 11514
States of United States, 6043
Federal information processing standards publication information interchange—
code, 6039
implementation of code, 7320
perforated tape code, 6040
housing code standards, studies, 11599
item management coding manual, 8116
routing identifier codes, MILSTRIP, 5510

Codes—Continued
synoptic code, standards and procedures of coding synoptic reports, 306
see also Code of Federal regulations—
Codes of law—Machine record codes—
also names of departments, etc., issuing codes—also subjects.

Codes of law:
District of Columbia, 1967 edition, supp., 5380
new approaches to housing code administration, 8778
statutes of United States, revision and codification study, authorization, reports, 4063, 12271

United States—
1964 edition, supplements, 6556-57, 7820, 9230
status of temporary entry provisions of title 19, report on use of temporary entry procedures and tentative proposals, 10429
title 5, amend, to provide additional supergrade positions, hearings, 12318
title 5, Government organization and employees, 16897
title 13, amend, reports, 15237, 15277
title 38, technical corrections—
law, 12109
reports, 5355, 10844
see also subjects.

Codex Alimentarius Commission, international standards for food products, U.S. delegates, etc., 12325

Coding theory, *see* Information theory.

Codispoti, Louis A.:
oceanographic cruise summary—
Baffin Bay-Davis Strait-Labrador Sea, 13228
UNITAS IX, cruise around South America, 13255

Coefficients:
attenuation and energy absorption, and photon cross sections from 10 keV to 100 GeV, 14668
convective heat transfer coefficients from solution of conduction equation for wall separating 2 fluids, 1 having oscillating temperature, 17253
discharge, for thick plate orifices with approach flow perpendicular and inclined to orifice axis, 16199
friction, of thin-film solid lubricants, pressure effects, 1266
heat transfer, for hydrogen flowing through parallel hexagonal passages at surface temperatures to 2275 K, 4706
linear differential equations with almost periodic coefficients, generalized averaging method for, 7502
radiation coefficients of right-angle cruciform slot antennas, possibility of measuring with allowance for reciprocal effect, USSR study, 15919
rate coefficient relevant to H₂ UV laser, 10251
reflection coefficient of circular aperture in ground plane covered by homogeneous dielectric or plasma slab, 1008
stagnation point velocity gradients and heat-transfer coefficients for family of blunt bodies, 11444
TE₁₀ mode reflection coefficient of ground-plane mounted parallel-plate waveguide illuminating reflecting sheet, 8597
theoretical mean activity coefficients of strong electrolytes in aqueous solutions from 0 to 100 C, 2285

Coeur d'Alene National Forest, general information, 12674

Coffee:
foreign agriculture circulars, 2902
foreign aid provided through operations of International coffee agreement, GAO report, 17065
green coffee inventories, imports, and roasting, current business reports, 2725

INDEX 1969

- Coffee - Continued
 - International agreement - annual report, 429
 - text, 6281
 - trade and tariff information, summaries, 10431
- Coffman, George W., corporations having agricultural operations, preliminary report, 8152
- Coffman, Jerry L., earthquake investigation in United States, 6529
- Cognasso, Ernestine S.:
 - records of Department of State—on internal affairs of Italy, 1910-29, 2274
 - relating to political relations between U.S. and Brazil, and between Brazil and other States, pamphlet, 7317
 - relating to political relations between U.S. and Italy, 1910-29, 10168
- Cohée, George V., changes in stratigraphic nomenclature by Geological Survey, 7043
- Cohen, Allan J., electron bombardment thruster operated with cusped magnetic field, 16188
- Cohen, Edwin S.:
 - remarks—
 - Aug. 9, 1969, 14950
 - Sept. 30, 1969, 16515
- Cohen, Gerald A.:
 - evaluation of configuration changes on optimum structural designs for Mars entry capsule, 14585
 - structural optimization of sandwich and ring-stiffened 120 degree conical shells subjected to external pressure, 14589
 - synthesis of optimum structural designs for conical and tension shell Mars entry capsules, 16121
- Cohen, J. J., special cloud content studies, 16627
- Cohen, Manuel F., address, Oct. 8, 1968, 17368
- Cohen, Mark E., development of improved cellulose acetate membranes for reverse osmosis, 4405
- Cohen, Marshall H., agricultural economy and trade of Denmark, 4157
- Cohen, Philip, hydrologic effects of 1962-66 drought on Long Island, N.Y., 7062
- Cohen, R.:
 - Brayton-cycle turbomachinery rolling-element bearings, 4666
 - design of Brayton rotating unit on rolling-element bearings, 14578
 - high-performance turboalternator and associated hardware, 7230
- Cohen, Wilbur J., statement on premium rate for medicare supplementary medical insurance, 5732
- Coils, winding long, slender coils by orthocyclic method, 7649
- Coin handling, classification definitions, 2365
- Coinage, *see* Silver (money).
- Coinage Joint Commission:
 - members, 1649
 - recommendations, hearings, 15308
- Coins:
 - coinage act amendments, reports, 16778, 16786, 16853
 - coinage act of 1969, hearings, 15308
 - commemorative, issuance, compilation of laws, 347
 - outstanding and circulation, monthly statement, 3460
 - see also* Numismatics.
- Coke, James G., fragmentation in land-use and control, 10284
- Coke:
 - antifissurants used in making better coke from Sunnyside coal from Utah, 4653
 - mineral industry survey, monthly, 2670
 - minerals yearbook chapter, 934
- Colby, Donald S., mineral resource valuation for public policy, 14530
- Colby, Elbridge, 1st Army in Europe, 9423
- Cold:
 - cryotherapy in treatment of snake envenomation, 14507
 - exposure, thermal evaluation of polyvinyl-chloride exposure suit (Empress) and comparison with present submarine deck exposure suit, 920
- Cold (weather):
 - oral acidogenic bacteria in Antarctic, 12998
- Cold-mold arc melting and casting, 929
- Cold regions:
 - characteristics, 15652
 - foundations of structures in cold regions, 15040
 - science and engineering series—
 - engineering, 3751, 6431, 7651, 15040
 - environment, 15652
 - water supply, 6431
- Cold Regions Research and Engineering Laboratory:
 - research reports, 1573-76, 3744-46, 7647-48, 9030-32, 10541, 11929-932, 15038, 15649-650
 - special reports, 5110, 7649, 10542
 - technical reports, 135, 1577, 3747-50, 7650, 12653, 15039, 15651
- Cold Springs, Ohio, railroad accident, report, 9794
- Cold Springs National Wildlife Refuge, birds, list, 6252
- Cold storage:
 - regional holdings, 1968, summary, 7535
 - report (periodical), 2671
- Cold war, *see* International relations.
- Coldframe, plastic covered greenhouse cold-frame, farm building plan, 3654
- Cole, Albert L., nomination, hearings, 9452
- Cole, Fred W., oxidation resistant materials for transpiration cooled gas turbine blades, wire specimen tests, 1012
- Cole, John W.:
 - magnesium, 14534
 - magnesium compounds, 14535
 - minor metals, 16090
- Cole, Samuel J., relief, 13884, 13950
- Coleoptera, *see* Beetles.
- Coles, Willard D., pumped helium tests of 51-centimeter bore nobium-tin magnet, 10112
- Collin, Lawrence, computation of topside ionograms from N(h) profiles, 8613
- Collbran Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 17059
- Collection of Federal unemployment tax, 7899, 10876
- Collective bargaining:
 - agreements, joint committee on boards to interpret provisions, union management funds to finance, report, 16817
 - bargaining in major symphony orchestras, 12976
 - community disputes, 5911
 - economic climate, facts, 14473
 - major agreements—
 - paid vacation and holiday provisions, 12964
 - plant movement, transfer, and relocation allowances, 14451
 - subcontracting, 10014
 - training and retraining provisions, 7170
 - Pacific region, 1968 calendar, 901
 - railroad shopcraft factfinding study, 881
 - selected pension plans, spring 1968, digest, 7172
 - settlements, estimating cost, 11351
 - see also* Industrial relations.
- Collective defense treaties, 9344
- Collectives, USSR, independence of kolkhozes members discussed, study, 2094
- Collectors and collecting, duck stamp data, information for stamp collectors and conservationists, 16442

College Benefit System of America, incorporate, hearings, 16889
 College contract program, *see* Colleges and universities.
 College students, *see* Students.
 College work-study program, *see* Colleges and universities.
 Colleges and universities:
 academic facilities constructed with Federal financial assistance, need for strengthening controls for determining compliance with statutory restrictions on use, Education Office, GAO report, 1947
 advanced degree programs, 1951-67, contribution to training of medical school faculties, 10195
 American, 1970-71 foreign curriculum consultant program, 14135
 associate degrees and other formal awards below baccalaureate in higher education, 6867, 14129
 baccalaureate sources of science and engineering manpower, 4815
 basic student charges, tuition, and fees, for board and room, 4175
 campus disorders, extent of subversion, hearings, 14049, 16888
 campus riots and disorders, Oct. 1967-May 1969, staff study, 14037
 campus unrest, hearings, 15312-313
 characteristics of students and their colleges, 9154
 college bound program, New York City, secondary program in compensatory education, 6899
 college recruiting, 1968 report, Federal Highway Administration, 11058
 consortiums in American higher education, 1965-66, exploratory study, 576
 cooperative education program with Army Dept., 7660
 curricula in marine sciences and related fields, 16237
 directory—
 higher education, 1807, 4166
 Negro, 4462
 distributive education, post secondary, guide for administrators and teachers, 15638
 earned degrees conferred, institutional data, 4165, 12427
 educational and Federal laboratory-university relationships symposium, proceedings, 11054
 eligible institutions guaranteed student loan program, under higher education act of 1965, as amended, list, 12429
 emergency insured student loan amendments of 1969, reports, 15249, 15368
 Emergency student loan act of 1969—
 hearing, 12311
 report, 6788
 employees in institutions of higher education, numbers and characteristics, 6884
 enrollment, 1967, fall, upper division, 12435
 enrollment, 1968, fall, summary data, 5549
 enrollment in higher education, opening fall, 1968, institutional data, 6887
 factors related to high school graduation and college attendance, 10603
 Federal financial support for higher education, toward long-range plan, report, 4381A
 Federal grants awarded for construction of academic facilities, practices followed by Education Office in adjusting, GAO report, 5692
 Federal support of research project grants, indirect costs and cost sharing, hearings, 9465, 10903
 Federal support to universities and colleges, 1967 fiscal year, 7362
 federalism and the academic community, brief survey, 7565

Colleges and universities—Continued
 federally sponsored research by educational institutions, indirect cost study, GAO report, 11228
 financial aid for higher education, 8169
 financial statistics, 1965-66—
 current funds, revenues, and expenditures, 4169, 12432
 institutions of higher education, 4170
 property, 9653
 financial statistics, 1966-67—
 current funds, revenues, and expenditures, 12432
 property, 15631
 financial statistics, 1967-68, student financial aid, 12433
 Government-university partnership in graduate education (remarks), 199
 graduate education, parameters for public policy, 8738
 graduate enrollment and Ph. D. output in scientific fields, 1960-61 through 1965-66 trends, 1199
 grants for international educational programs, hearings, 495A
 grants for promoting advancement of science and education of scientists—
 hearings, 419
 study, 4000
 higher education act of 1965—
 amend—
 hearing, 12311
 reports, 15249, 15368, 16788
 student loan program, 7% tables and amortization tables, 6902
 higher education amendments of 1968—
 hearings, 15312-313
 programs, 4174
 higher education economics and financing, compendium of papers, 16746
 higher education personnel training program, 1969-70 fellowship programs, etc., 5541
 higher education programs in foreign language and area studies, research and training opportunities abroad, 14142
 higher education reports for participants in Higher Education Bureau programs, 1811, 4176, 9654
 higher education, research and technology (remarks), 200
 higher education, salaries, 12434
 institutions of higher education, index by State and congressional district, 15633
 job opportunities that may be open to applicants—
 college education usually required, 4606
 technical institute or other specialized training usually required, 4609
 library statistics, data for individual institutions, 6881, 14138
 making contemporary, our colleges and universities (address), 15635
 manpower research institutional grant program, first three years, 14439
 matching sheepskins with jobs, employment outlook for college graduates, 5910
 mental retardation, construction program, affiliated facilities, 11257
 NASA'S university program, active grants & research contracts, quarterly report, 3156
 national institutional grants program—
 hearings, 9366
 report, 15274
 national program of educational laboratories, 15637
 Negro American and higher education (remarks), 1814
 1968-69 national debate topic, executive control of U.S. foreign policy should be significantly curtailed, 356
 placement officers, employment outlook, 4493
 psychiatric-mental health nursing institutions offering stipends, list, 13351

- Colleges and universities—Continued
 San Francisco State College, shut it down! college in crisis, 13327
 schools participating in nursing student assistance programs, 1970 fiscal year, 17282
 science and engineering, support and research participation of young and senior academic staff, 2323
 scientific activities, 1964 financing and Jan. 1965 employment, 1234
 selected financial statistics, 16963
 sociologists and anthropologists, supply and demand in educational institutions, 14808
 State colleges, monetary restraint, borrowing and capital spending, 4277
 State land-grant, Extension Service review (periodical), 2811
 student disturbances act of 1969, hearing, 14051
 students enrolled, advanced degrees, 1966 fall, 4186
 students enrolled, advanced degrees, fall 1967—
 institutional data, 5544
 summary data, 6880
 summer enrollment in higher education, 10989
 toward a public policy for graduate education in sciences, 6099
 two-year college contract program, NROTC, 4835
 universities and environmental quality, commitment to problem focused education report, 16399
 university training of sociologists urged, USSR study, 5833
 urban university, challenge and response (remarks), 7078
 war on campus, student unrest, the New Left study, memorandum, 9476
 print as Senate document, report, 9404
 workshop for college deans & campus security officials, 8587
 work-study program, 1969-70 allocations of Federal funds, 14052
 see also Dissertations—also names of colleges and universities.
- Collimators, automatic, development and evaluation for medical diagnostic X-ray machines, 6191
- Collin County, Tex., soil survey report, 13444
- Collins, A. Gene, solubilities of some silicate minerals in saline waters, 17097
- Collins, J. A., Smithsonian International exchange service, annual reports, 13431, 16405
- Collins, Ronald P.:
 mineral industry of—
 Oregon, 963
 Washington, 2166
- Collins, William E.:
 adaptation to vestibular disorientation, influence of head position on habituation of vertical nystagmus, 209
 modification of vestibular nystagmus and vertigo by visual stimulation, 11971
- Collishaw, A. N.:
 flame spread tests on foam plastic materials, 601
 spiral generation of building shells for military construction, 6905
- Collisions, see Aircraft accidents—Marine accidents—Motor vehicle accidents.
- Collisions (electronic):
 collisions of 2 hydrogen molecules, calculated interaction energy and dipole moment in, 17234
 ion-molecular, with long-lived capture complexes computer plotting description, 14645
 particle-oscillator collision applied to gas-surface interactions at cryogenic temperatures, quantum theory, 2269
- Collisions (electronic)—Continued
 rotational, comparison of numbers obtained from different definitions, 13108
 semiempirical collision model for plasmas, 10156
- Colloids:
 effects of ionizing radiation, report, 5150
 lyophobic, electrooptical properties, USSR study, 5825
- Colombia:
 agricultural commodities, agreement, 6277
 agricultural production and technology, changes, 10972
 air transport services, agreement, 6287
 capsule facts for Armed Forces, 5092
 economic trends and their implications for United States, 7115
 foreign trade regulations, 16706
 mineral industry, minerals yearbook chapter, 2138, 14539
 phosphate rock, preliminary report, with section on phosphate occurrence at Turmeque, 15793
 U.S. aid, case history, alliance for progress survey, 5445
 weather stations, cooperative meteorological program, continuation, agreement, 7498
- Colonial National Historical Park, Dudley Digges House Dependencies (outbuildings), history, etc., 13184
- Colonia, N.Y., population, special census of town, 243
- Colonies, neocolonialism, as threat to Africa, Soviet view, 5853
- Color, marine sediments, Atlantic Continental Shelf and slope of U.S., 5716
- Color blindness, induced colors seen by deuteranope, 5928
- Color codes:
 coding, manufacturer's color, nylon parachute cloth, military standard, 545
 single gun color CRT, research and development, 2200
 webbing, textile, manufacturers' identification, military standard, 14111
- Color of man, health characteristics by color, differentials, 16375
- Color perception:
 homeochromatic visual world, adaptation, 918
 underwater visibility of colors with artificial illumination, 7199
- Color photography, see Photography.
- Color-printing, three different techniques of color separation applied to charting and printing, 13243
- Color prints, see Prints.
- Colorado:
 apples, marketing order authority, extend, report, 16871
 beef cattle feedlots, characteristics, 6385
 census of business, 1967—
 retail trade, area statistics, 10595
 wholesale trade, area statistics, 16653
 climatological data, 2662
 electric rate book, 4263, 14215
 Federal outlays, report of Federal Government's impact by State and county, 9338, 9588
 Federal-State partnership for economic growth, Four Corners Regional Commission, 9870
 floods of June 1965 in South Platte River basin, 15816
 Fryingpan-Arkansas project, general information, 13394
 Indian vital statistics, 16312
 irrigation council, annual meeting, proceedings, 4908, 10348
 mineral and water resources, report, 5387
 mineral industry, minerals yearbook chapter, 2139
 national forests, multiple use of resources, 14272

Colorado—Continued
north-central, Chinle (Upper Triassic) and
Sundance (Upper Jurassic) formations,
7045
precipitation data, hourly, 2962
response of deer to alternate-strip clear-
cutting of lodgepole pine and spruce-fir
timber, 14284
San Juan primitive area, mineral re-
sources, 14329
southwestern, Precambrian elastic and
pelitic rocks, gold investigations, 14332
surface water, occurrence and distribution
of molybdenum, 15814
Territory, 1862-66, internal revenue as-
sessment lists, pamphlet accompanying
microcopy, 6035
water resources data, 15813
water supply outlook—
and snow surveys, 3584
early season snow report, 2466
special snow report, 8868
Colorado National Monument, general infor-
mation, 8719
Colorado River and Valley :
basin, mineral pollution problem, general
background, 14243
basin pilot project, Project Skywater,
conference proceedings, 14837
compilation of hydrologic data of basin,
1966—
Deep Creek, Tex., 12763
Mukewater Creek, Tex., 12764
Waller and Wilbarger Creeks, Tex.,
12765
fish passage report, Bonneville, The
Dalles, and McNary Dams, 14148
lower Colorado River, reclamation, 13396
lower, water resources, Salton Sea area
(series), 5714
lower, water supply, magnitude and dis-
tribution, 5714
region and John Wesley Powell, collection
of papers, 9904
water supply outlook and snow surveys
of—
drainage basin, 3584
lower basin, 3583
watershed conditions affecting water sup-
ply, 3485
Colorimetric method for arsenic in coal, 974
Coloring books, see Painting books.
Colson, B. E., surface water resources of
Yobe River system, 1963-68, 15810
Columbia County, Ark., community profile,
15550
Columbia River and Valley :
and tributaries, flood plain information,
12454
basin—
British Columbia and Washington,
Moses Coulee, Crab & Foster Creeks,
Okanogan, Sanpoil, Colville Rivers,
river mile index, 13310
preserve as source of salmon and steel
head trout, cost incurred, GAO re-
port, 12732
spawning areas and abundance of Chi-
nook salmon, past and present, 1670
special operating program for Canadian
storage, agreement with Canada, 7523
water availability seminar, criteria for
type 1 comprehensive river basin
study, 10453
The Dalles area, Oreg. and Wash., effect of
tectonic structure on occurrence of
ground water in basalt, 11243
estuary, improvements, hydraulic and sa-
linity verification, model studies, 5572,
16969
Federal Columbia River Power System,
Bonneville Power Administration re-
port, 6482
flood season flow near The Dalles, 3470
John Day Dam, fish ladders, hydraulic
model investigations, 5569

Columbia River and Valley—Continued
monthly mean discharge at gaging stations
and change of storage in lakes, etc.,
3470
salmon and steelhead trout, recent ad-
vances in artificial culture, 6550
snow survey and soil measurements for
drainage in Canada, 4942
storage in major power reservoirs,
monthly report, 3470
water supply outlook and snow surveys,
3591
Columbium, see Niobium.
Columbium carbide, see Niobium carbide.
Columbus, Ohio :
accounts and deposits in all commercial
banks in district, summary, 9761
area wage survey, 7178
metropolitan area, Big Walnut Creek
floods, how to avoid damage, 12524
vicinity, flood plain information, 12450
Columnaris disease of fishes, 11687
Columns :
ion-exchange and adsorption columns—
axial dispersion constant-pattern kinet-
ics, 17098
study of design-optimization procedure
for, 17099
use of small and large displacement data
from essentially elastic buckling tests
on columns and plates to correlate
theory and experiment, 13673
Colville River and Valley :
basin, Stevens County, Wash., streamflow
characteristics, 14336
river mile index, 13310
Combat :
aviation combat criterion, development,
preliminary report, 14502
Marine Corps, lithograph series, 12992
readiness—
Army and Marine Corps divisions, 2d
Armored Division, Ft. Hood, Tex.,
etc., subcommittee report, 1730
69th Infantry Brigade, Kansas-Missouri,
67th Infantry Brigade (mechanized),
Nebraska-Iowa, 49th Infantry Bri-
gade, California, subcommittee report,
1731
United States and South Korean Forces
in South Korea, subcommittee report,
1732
see also Military art and science.
Combat areas :
larger units, theater Army corps, field
manual, 3756
petroleum supply in theater of operations,
Army field manual, 136
planning and design of roads, airbases, and
heliports in theater of operations, 174
Combat vehicles, see Motor vehicles.
Combustion :
afterburning in low-altitude rocket ex-
haust plume, theory, 10253
ammonium perchlorate, USSR studies,
5852
characteristics of aluminized composite
solid propellant, effects of steady-state
acceleration, 2233
chlorine in coal combustion, 10061
classification definitions, 2385
effect of aluminum size and loading on
burning rate of solid propellants under
acceleration, experimental investigation,
16163
emulsified fuels combustion study, 9056
instability, acoustic mode, measured ef-
fects of gaseous flow system dynamics,
7265
platinum-catalyzed combustion and ioniza-
tion, effect of oxygen concentration,
13284
solid-propellant combustion instability and
role of velocity coupling, 14639

Combustors:

- advanced high temperature combustor research for small gas turbine engines, final report, 3783
- annular gas turbine combustors, analysis of total-pressure loss and airflow distribution, 14631
- characterization of pressure perturbations induced in rocket combustor by machine gun, 8652
- nitrogen tetroxide-hydrazine, performance and stability characteristics, 1055
- rocket, Helmholtz resonators evaluated, design of acoustic liners for rocket liners, 7304
- swirl-can turbojet, performance, at simulated supersonic inlet conditions, 4726
- Comella, Lawrence J., basic data on economy of Bermuda Islands, 6540
- Comfort stations, *see* Public comfort stations.
- Command (military):
 - division support command and separate brigade support battalion, 10544
 - political advisers to U.S. military commanders, analysis and assessment, 6787
- Commanders digest (periodical), 2672
- index, 5479, 6824, 16907
- Commanders' supply and maintenance handbook, 1581
- Commemorative medals, *see* Medals.
- Commemorative stamps, *see* Postage stamps.
- Commerce:
 - agricultural economy and trade of Denmark, 4157
 - agricultural trade development and assistance act of 1954, Library of Congress project newsletter, 3071
 - agricultural trade statistics, 1961-67, European Economic Community, 4158
 - are there substitutes for a large trade surplus? (address), 9983
 - commerce and foreign trade, code of Federal regulations, 9801
 - commerce, your business and ours (address), 212A
 - convention on transit trade of land-locked States—
 - agreement, 4976
 - report, 1725
 - East-West trade, Battle act, report, 4963
 - economic performance of motor carriers operating, under agricultural exemption in interstate trucking, 3649
 - export expansion program (speech), 820
 - exporters, importers, and consumers interest (address), 1870
 - 5-year outlook for U.S. trade (address), 9986
 - foreign agricultural trade, 8965
 - by commodities, 4159, 15626
 - by countries, 575, 9647
 - monthly, 2900
 - Foreign Arbitral Awards, recognition and enforcement, convention on, report, 1724
 - foreign commerce and navigation of U.S., 1964—
 - departmental edition, 1621
 - document edition, 1691
 - foreign commerce, single factor tariff rates (remarks), 16993
 - foreign economic policy-trade, payments and controls (address), 1653
 - foreign, Federal programs supporting exporters (speech), 819
 - foreign-made goods sold in U.S. in competition with domestically produced goods, investigation and study, 7893
 - foreign market reports, accessions list, 2905
 - foreign trade—
 - American exporter faces competition (address), 9982
 - balance (statements), 1664, 3907
 - containerization and documentation in Inter-American trade (remarks), 14209

Commerce—Continued

- foreign trade—continued
 - data, technical notes on new census method for seasonal adjustment, 12020
 - facilitation (remarks), 11365
 - five-year outlook with recommendations for action, 7120
 - FT reports, 1626, 2909-21, 9168, 10607, 10613-615
 - future United States policy, report, 4945
 - policy (addresses), 7805, 10640
 - United States 1962-68, annual, 5290
 - United States 1966-68, quarterly, 1658
 - United States 1967-69, quarterly, 10646, 15167
- foreign trade and tariff proposals, hearings, 13944
- foreign trade regulations—
 - Argentina, 9207
 - Belgium, 5288
 - Bolivia, 10655
 - Burma, 1655
 - Canada, 9201
 - Ceylon, 5287
 - Colombia, 16706
 - Dominican Republic, 1660
 - Greece, 9210
 - India, 10654
 - Iran, 10656
 - Israel, 15168
 - Jordan, 7804
 - Luxembourg, 5288
 - Mexico, 9203
 - Morocco, 3895
 - Netherlands, 10658
 - Nigeria, 7803
 - Peru, 1661
 - Saudi Arabia, 15172
 - Switzerland, 9209
 - Thailand, 7802
 - Turkey, 15169
- foreign trade statistics—
 - country designation, code, classification, Schedule C, 5209
 - guide, 9162
 - regulations, compilation, amendments, 6490
 - U.S. classifications and cross-classifications, 1627
- foreign waterborne, operations (remarks), 639
- four economic freedoms (address), 7793
- future perspective (address), 10638
- grow with world trade (address), 15888
- improving U.S. position in world trade (address), 16702
- international commerce (periodical), 2996
- automated cumulative index, 2997
- international trade, to aid, promote and foster (remarks), 15715
- Interstate commerce act, amend—
 - hearings, 10794
 - report, 15293
- interstate commerce acts annotated, advance bulletins, 2553
- Interstate taxation act, reports, 10710, 10726
- national foreign trade conventions, review (remarks), 2022
- new Administration's approach to current problems (remarks), 6545
- 909 International trade fairs, 1969 year of big sell on every continent in every major market, 4424
- Northwest forest industries, trade, 3337
- opportunities in world trade for small businessman (address), 10644
- production and trade of business machines in principal world markets, 10592
- relationship between regulation of transportation and export commerce (remarks), 15714
- small business participation in export expansion activities, 15890
- South Africa's agricultural trade, 1970 and 1975 projections, 572

Commerce—Continued

steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 2599, 15710
 summaries of trade and tariff information, 1460-66, 2511, 4987-88, 7541, 10430-433, 11739, 13500, 14939
 trade expansion act of 1968, proposals, analysis, 1719
 trade list catalog, 8486, 10000
 trade, Savannah River highway, steamboats, etc., operating during 19th century, 14153
 travels for trade (address), 9213
 U.S. trade imperative, action program for exporting (address), 821
 U.S. trade prospects, problems and priorities (address), 9215
 United States trade with—
 Communist areas in Eastern Europe and Asia, 9208
 major world areas, 9202
 Puerto Rico and U.S. possessions, monthly report, 2912
 waterborne—
 America's need for regulation today (remarks), 8210
 1965 calendar year, national summaries, 11010-12
 1966 calendar year, 1823, 8182-83
 national summaries, 11013
 1967 calendar year, 8184, 12556
 national summaries, 12557
 non-vessel operating common carrier remarks, 6945
 regulation of foreign carriers (remarks), 14210
 Webb-Pomerene export trade associations and wood products industries or can Webb-Pomerene act help U.S. sell more processed wood to Japan?, 12713
 world markets, National and regional export expansion councils helping American business to compete successfully, general information, 13806
 world trade, to develop expanding era, proposals, analysis, 1719
see also Exports—Tariff—*also* names or classes of articles of commerce—*also* names of countries and places.
 Commerce business daily, 2674
 Commerce Committee, Senate:
 calendar, 3056
 committee prints, 8059, 9451
 hearings, 461-462, 1737-38, 4075 5432-35, 8057-58, 9452-53, 10891 892, 12288-292, 14020-21, 15425-429, 16878, 16880-881
 investigation and studies, authorization, report, 4051
 reports, 5401, 8046-47, 8049, 9385, 9394, 9405-6, 9415, 9424, 9433, 10854, 10857, 10859, 10864, 10868-869
 Commerce Department:
 annual report, 3890
 appropriations, 1970—
 hearings, 10767, 16878
 report, 12192
 Assistant Secretary for Economic Development, nomination of Robert A. Podesta, hearing, 6802
 auditing career, 13803
 General Counsel, nomination of Frederick Simplic, hearings, 1737
 how to sell to, 6539
 nominations, hearings, 9452
 periodicals to aid businessmen, 15179
 press releases, 3276
 procuring and stockpiling jewel bearings, GAO report, 8331
 programs to help meet domestic needs (address), 16705
 publications catalog and Index—
 1967 supplement, 3909
 1968 supplement, 13810
 Secretary, nomination of Maurice H. Stans, hearing, 5435

Commerce Department—Continued

serving a growing economy and a growing people, 15180-181
 State Technical Services Office, annual report, 3892
 telephone directory, 9214
 USA tour manual, 1483
 Commercial artists, *see* Artists.
 Commercial aviation, *see* Air carriers.
 Commercial banks, *see* Banks and banking.
 Commercial fisheries, *see* Fish and fisheries.
 Commercial Fisheries Bureau:
 annual report, 10667
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 BCF acoustical workshop, proceedings, 13821
 Biological Laboratory—
 Galveston, Tex.—
 general information, 3920
 report, 3917
 Honolulu, Hawaii, general information, 5300
 Oxford, Md., general information, 16712
 St. Petersburg, Fla., reports, 9225, 13817
 Woods Hole, Mass., general information, 10666
 circulars, 320-321, 1666, 3917-21, 5297-5300, 6547, 7811-13, 9223-25, 10664-666, 12072-73, 13817 819, 16712-713
 Federal aid program, 1969 activities, 12073
 Fishery—Oceanographic Center, La Jolla, Calif., report, 321
 Great Lakes Fishery Laboratory, Ann Arbor, Mich., general information, 13819
 historical statistic, U.S. series, 3925
 La Jolla, Calif., digital data logger STD tapes, processing, 13823
 new publications, monthly list, 3138
 press releases, 3277
 Radiobiological Laboratory, Beaufort, N.C.—
 progress report, 7813
 research facilities, 5298
 special scientific reports, fisheries series, 1669-71, 3926-27, 5302-7, 6551, 7815-17, 10668, 13822-823, 15184, 16715
 list, 9226
 Technological Laboratory, Seattle, Wash., guide, 12072
 Commercial policy, free world commercial and security interests, United States maritime policies and their relationships (remarks), 8209
 Commercial practices, code of Federal regulations, 5626, 8221
 Commercial products:
 Atomic Energy Commission, procurement of certain products from private industry by, GAO report, 720
 consumer products, radium, use in, 6188
 domestic merchandise, U.S. exports, 1967 statistics, 1626, 10613
 exports—
 foreign trade reports, 2911, 2920, 10615
 schedule B, 10614
 statistical classification, schedule B, 222, 3412
 fabricated metal products manufacturing, industry trend, 7730
 foreign, available for production in U.S. under license agreements, 14424
 imports, foreign trade reports, 2910, 2920, 10607, 10615
 schedule A, commodity groupings, etc., 9166
 marketing new products, information sources, selections from Marketing information guide, 16640
 products standard PS (series), 14668-669
 promotion, employees contributions to jointly administered trust funds, permit, report, 16817

Commercial products—Continued
pyrotechnics and products not elsewhere
enumerated, trade and tariff informa-
tion summaries, 4988
recent purchases of cars, houses, and other
durables and expectations to buy, sur-
vey, data, 13770
sanitation guidelines for finished products
(poster), 11153
shipments of commodities by manu-
facturers, map, 7754
specified products, miscellaneous and none-
numerated products, trade and tariff in-
formation, summaries, 1465-66
standard commercial articles and services,
exemption, revocation, 2440
transporting merchandise to southeastern
Alaska in part over Canadian highways,
exempt from Merchant marine act, hear-
ings, 1705
unordered merchandise, shipper's obliga-
tions and consumer's rights, 14238
USSR consumer goods and domestic trade,
translations, 3520
see also names of products.

Commercial treaties:
reciprocal trade agreement of 1934, with
amendments, compilation, 3940
trade agreement with Switzerland, ter-
mination, 8886
trade agreements program, 1967, report,
10280
trade expansion act of 1968, proposals—
analysis, 1719
hearings, 13944
see also General agreement on tariffs and
trade.

Communication:
ductile metals into ultrafine powders by
grinding, role of chemical reactions in
mechanism, 1087
ultrafine comminuted powders, used for
producing dispersion-strengthened
nickel, 16172

Commission for Educational Exchange be-
tween United States and Federal Republic
of Germany, *see* Educational Exchange
between United States and Federal Re-
public of Germany, Commission for.

Commission for Extension of U.S. Capitol,
see Capitol, United States, Commission
for Extension of.

Commission on Balanced Economic Develop-
ment, *see* Balanced Economic Develop-
ment Commission.

Commission on Government for District of
Columbia, *see* District of Columbia Com-
mission on Government.

Commission on Government Procurement,
see Government Procurement Commission.

Commission on Hunger, *see* Hunger Commis-
sion.

Commission on Population Growth and
American Future, *see* Population Growth
and American Future Commission.

Commissioned officers, *see* Army—Public
Health Service.

Commissions, *see* names of commissions.

Commitments of U.S. power abroad, 17404,
17406

Committee for Preservation of White House,
see White House, Committee for Preserva-
tion of.

Committees, *see* Advisory committees—Con-
gressional committees—*also* names of
committees.

Commodities, *see* Agricultural products—
Commercial products—Fruit—*also* names
of commodities.

Commodity Credit Corporation:
appropriations—
1969, supplemental, hearings, 6703, 6775
1969 and 1970, supplemental, proposal,
6576
1970, report, 12254

Commodity Credit Corporation—Continued
capital impairment, restore—
law, 7830
reports, 6693, 8020
CCC price support program data, 2648

FHA emergency credit revolving fund,
temporary funding, report, 9412
financial condition and operations, 3379
financial statements, 1968, GAO examina-
tion, 6583, 7029
member of board of directors, nomination
of—
Campbell, J. Phil., hearing, 4068
Palmby, Clarence D., hearing, 4068
operations, June 30, 1968, graphic sum-
mary, charts, 7818
orderly liquidation of stocks of agricul-
tural commodities held by CCC, etc.,
3662
sales list, monthly, 2647
statistics, compilation, 1502

Commodity Exchange Authority:
appropriations, 1970—
hearings, 7945
reports, 9311, 12254

Commodity exchanges:
code of Federal regulations, 12630
commodity futures statistics—
July 1967-June 1968, 1519
monthly summary, 3143
cotton and grain futures acts, compila-
tion, 3939

Common carriers, *see* Air carriers—Car-
riers—Communications.

Common Market, *see* European Economic
Community.

Communicable diseases, *see* Contagion and
contagious diseases.

Communication (psychology):
communicating by language, reading proc-
ess, conference proceedings, 1188
communication and mountain develop-
ment, summary report of 2 east Ken-
tucky studies, 9531

Communication satellites, *see* Satellites.

Communications:
act of 1934—
amend—
hearings, 8058, 10796, 15428
reports, 8049, 15239
amendments, 16985
administrative communications, 11893
aeronautical, flight services handbook,
6424-25, 9013, 11919
aeronautical handbook, 2556
Alaska-Northwest Canada, regional, politi-
cal, and communications aspects of de-
velopment relations, 14195
biomedical communications, National Li-
brary of Medicine, post-graduate library
associate training program, curriculum,
qualifications, etc., 17284
carriers, discontinuance of service, FCC
rules and regulations, 2837
CAS computer communication network,
DoD Contract Management Conference,
1776
circuits, spare, Government-owned, in
Europe, savings through use by Defense
Dept., GAO report, 8329
common carriers—
and affiliates, reports, FCC rules and
regulations, 2837, 9749
miscellaneous rules, FCC rules and re-
gulations, 2837, 9749
preservation of records, FCC rules and
regulations, 2837, 9749
statistics, 9750
communication efficiency of quantum sys-
tems, 16203
communication links, optimum design,
with noisy phase reference, 2230
comparison of sequential decoding metrics
by computer simulation, 4751

Communications—Continued

electronic activities, terminology, Air Force manual, 19001
 equipment, Federal item identification guides for supply cataloging, supplements, 2846
 high frequency sky-wave communication services, technical considerations in selection of optimum frequencies, 12568
 improvement of transportation graphics and communications, proceedings of seminar, 13387
 industry wage survey, 7176
 information networks and commutation, USSR study, 12910
 media and social rehabilitation programs (address), 4927
 media in control systems, USSR study, 12879
 microwave and laser systems for communication and tracking, parametric analysis, summary, 8657
 national communications system, review of status of development toward establishment, GAO report, 11223
 Navy design manual, changes, 4818
 President's Task Force on Communications Policy, final report, 10288
 publications, price list, 8791
 radio science (periodical), 3362
 satellite act of 1962—
 amend—
 hearings, 5377, 5434
 law, 6563
 reports, 5401, 6654
 annual report on activities, etc., 5337
 scientific and technical, U.S. Government, progress, 1862, 15699
 skills center project, Detroit, Mich., elementary-secondary program in compensatory education, 6877
 system design, 17227
 systems improvement study reports, records and communications in Boston Police Department, LEAA project report, 873
 training, use for increasing ASW helicopter effectiveness, 6134
 use of—
 circumaural earphones in audiometry, 926
 Federal Aviation Administration system, Federal aviation regulations, 12583
 surface waves in communicating with high speed vehicles, 12574
 USSR—
 herald of communications (periodical), 2957
 translations, 3519
 VHF, between synchronous satellite relay and earth ground stations, solar effects on, 8618
 see also Radio communication—Signals—Telecommunication—Telephone—Television.
 Communications Satellite Corporation:
 COMSAT board of directors, formula for election, amend act—
 hearings, 5377, 5434
 law, 6563
 reports, 5401, 6654
 Member, Board of Directors, nomination of Frederic G. Donner, hearings, 1737
 Communism:
 African Communists' struggle reported, USSR study, 5812
 Brezhnev doctrine of limited sovereignty, 9463
 Caribbean threat to U.S., hearings, 15467
 Communist organizations, study and investigation, report, 5413
 Communist Wars of national liberation, 3731
 international, doctrine, reiterated, USSR study, 5838

Communism—Continued

Lenin views of ownership, centralization aired, USSR study, 5868
 problems (periodical), 3335
 propagandists and agitators of army and navy, USSR, handbook, 7135
 strategy in Caribbean, report, 6711
 student militant extremists, the New Left, memorandum, 9476
 print as Senate document, report, 9404
 subversive influences in riots, looting and burning, hearings, 425-426, 4065, 7977
 print additional copies, reports, 10753, 12278
 USSR, Kommunist (periodical), translations, 3505
 world strength of Communist party organizations, 8902
 see also Un-American activities, Communist China, see China.
 Communist Party of Belorussia:
 50th anniversary meeting, 5849
 structure outlined, 834
 Communist Party of China, history, conference papers available, 7484
 Communist Party of Puerto Rico, activities, Communist threat to U.S., hearings, 15467
 Communist Party of Soviet Union:
 activities described, 864
 control of art, literature at regional level, 5843
 current party and State activities, 869
 effectiveness of ideological work reviewed, 5848
 leadership of Armed Forces emphasized, 5847
 military leadership conflicts denied, USSR study, 5856
 party level discussions, translations, 852
 Party unit's role in research institute praised, USSR study, 17130
 problems and goals in party work discussed, 5842
 Republican party activities examined in newspapers, 5851
 Communist Party of Uzbek SSR, official addresses Estonian arts festival, 2087
 Communities, see Cities and towns—Rural communities.
 Community Action Agency, manpower guidebook, employment programs for poor, 10962
 Community action for civil defense, leader's guide workshop, 262
 Community Action Programs, see Economic Opportunity Office.
 Community centers:
 halfway or more?, 10283
 mental health, statistical information system, 10320
 project report on centralized comprehensive program, designs for action for older Americans, 11786
 right spirit all year long, 5552
 Community Development Office, HUD, what it is, what it does, 7077
 Community development programs:
 community action program—
 CAP mission guide—
 mobilization of non-poor volunteers, 12401
 participation of the poor in community decision-making process, 15536
 PERT for CAA planning, programmed course of instruction, 4152-53
 community development action, model cities development corporation (remarks), 765
 community resource development, how cooperative extension works, 5061
 ECA mission (remarks), 16944
 Federal assistance programs, catalog, 5519
 federally supported state technical assistance, report, handbook, 17081

Community development programs—Con.
homes, etc., publications, price list, 1329
workable program for community improve-
ment, HUD handbooks, 774, 14386

Community facilities:
community mental health centers act,
amend, hearings, 15471
community mental health centers amend-
ments of 1969, hearings, 15471
design manual for Naval shore facilities,
changes, 2326
financing by Housing and Urban Develop-
ment Dept., GAO review, 4344
Head Start child development centers—
good nutrition, 12405
physician and Project Head Start, 12403
mental health center—
bold new approach, 17331
grants for construction and staffing,
comprehensive program, 6173
statistical information system, 10320
mental retardation, construction program,
11257
mentally retarded, progress report, 1338
see also Public facilities.

Community health, *see* Health.

Community health services, *see* Health.

Community life *see* Neighborhoods.

Community profile, 12399-400, 15537 612

Community relations:
lifetime of learning, 12436
manual, 8144
minority community, spirit and flesh prob-
lems (address), 15996

Community Relations Service:
annual report, 6553
CRS media relations, informational moni-
toring service, 2720

Community service and continuing educa-
tion program of Office of Education, 14972

Community surveys:
Atlantida, case study in household sample
surveys, Spanish edition, 1624
supplemental courses for case studies in
surveys and censuses, ISP series, 1625,
5232

Communitors:
commutated networks employing feed back
circuits, analysis, 1111
iterated, and functions of operators, 1083

Commuter transportation, *see* Transporta-
tion.

Como la FHA ayuda en las permutas de
viviendas, 5745

Comoro Islands, birds observed on behalf of
Smithsonian Institution, 17371

Compacting, cellulose acetate membranes in
reverse osmosis desalination, study of
methods to retard, 15861

Compaction equipment, *see* Building machin-
ery.

Compacts (interstate), *see* Interstate agree-
ments.

Companies:
company industrial civil defense manual,
guide to developing, 6515
filing annual reports with SEC, directory,
1374
pipeline, cost of pipeline and compressor
station construction under non-budget
type of certificate authorizations as re-
ported in fiscal year 1968, 14212

Comparative morphology of hematopoietic
neoplasms, 16259

Compare, Cielli, relief of children, 9393

Compatibilty:
conditions of theory of micromorphic elas-
tic solids, 1034
molten uranium with tungsten and tung-
sten 1.5 percent hafnium, tests, 6020

Compensation, *see* Employers' liability and
workmen's compensation—Pensions—Sal-
aries—Wages.

Compensatory education, *see* Education.

Competition:
American exporter faces competition (ad-
dress), 9982
automobile industry, 1968, are planning
and regulation replacing competition in
American economy? case study, hear-
ings, 5465
defense procurement, minimize concentra-
tion, hearings, 6794
drug industry, competitive problems, hear-
ings, 1745, 8095, 10920
evaluation of 2 proposed methods for en-
hancing in weapons systems procure-
ment, Defense Dept., GAO report, 12742
foreign, in horticultural products, 12669
nuclear power supply industry—
remarks, 207
reports, 5165
principal competing countries, agricultural
market development activities, 8270
procurement of aeronautical spare parts,
Defense Department, need for more com-
petition, GAO report, 712

Complaints, civil rights, who will listen?
13784

Complexes, *see* Coordinates.

Complexions, metals eliminated from orga-
nism by complexation, USSR study, 8497

Composite materials:
Air Force, development and standardiza-
tion, for Armed Forces vocational apti-
tude battery, 10504
aircraft wing section, fabrication and test-
ing, 1588
aluminized composite solid propellant, ef-
fects of steady-state acceleration of
combustion characteristics of, 2233
concrete-polymer materials, topical report,
7674
fabricated with advanced high-strength,
high modulus reinforcement materials,
182
fiber-reinforced—
composite facings of sandwich conical
shells, vibration evaluation, 6456
static and dynamic viscoelastic behavior,
1590
filament-stiffened sheet, stress concentra-
tion around broken filaments, 16191
filamentary composites, failure criteria,
14618
lattice model, 7242
oblique loading of unidirectional fiber com-
posites, shear loading, 6455
structural composites, viscoelastic shear-
damped, loss factor and resonant fre-
quency, 5976
structural sandwich composites for aero-
space vehicles, military handbook, 9521
void content in glass-filament-wound com-
posites, nondestructive testing, 7382

Composites, *see* Composite materials.

Compost:
composting ponderosa pine bark, effects of
nitrogen addition and aeration, 5678
solid waste management, composting,
European activity and American poten-
tial, 6207

Compound interest, 651

Compounds:
antihistamine-containing compounds, ef-
fects of 2 upon performance at 3 alti-
tudes, 211
bitter, taste thresholds during submarine
patrol, 924
concrete curing, colorless and water-based,
investigation, 11016
preventive, phosphate coatings and inhibi-
tors, military standard, 12368
see also names or classes of compounds or
purpose for which used.

Comprehensive export schedule, 2684

Compressed gases, *see* Gases.

Compressibility:
compressive strength of rocks, influence of
spherical head size and specimen diam-
eters on uniaxial, 4652

- Compressibility—Continued
factors for helium and carbon dioxide mixtures at 0°, 10°, 20°, 23°, and 35°C and to 900 psia, 5957
- Compressible flow, *see* Flow.
- Compression:
bicone mixed-compression inlet for Mach 1.80 to 2.50, characteristics study, 7268
compressive strength of titanium skin-stringer panels, influence of various fabrication methods, 14634
high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stability, 15062
rapid compression in saturation-exursion dives to 1000 feet, effect on pulmonary functions, 13004
vapor, test bed plant, Roswell, N. Mex., annual report, 9963
- Compression wood, *see* Lumber.
- Compressive properties and column efficiency of metals reinforced on surface with bonded filaments, 1101
- Compressors:
axial-flow compressor rotor, effects of 3 outlet-annulus area blockage configurations on performance, 17249
composing compressor blading from simulated circular-arc elements on conical surfaces, computer program, 16183
current industrial reports, 3854
Federal item identification guides for supply cataloging, supplements, 2845
gas turbine powered vapor compression plant for evaporation of seawater, design and economic study, 2006
pipeline companies and cost of pipeline and compressor station construction under non-budget type of certificate authorizations as reported in fiscal year 1968, 14212
salt deposits in compressors of flight gas turbine engines, survey, 5994
simulated turbine-engine compressor environment, hot-salt stress corrosion of a titanium alloy, 17251
single-stage axial compressor component, development for small gas turbines, 13675
supersonic compressor stage development, 13675
theoretical studies of compressor noise, 8589
- Compton, Harold R., determination of lunar equatorial radius using image motion compensation sensor data from Lunar Orbiter I, 11459
- Compton, Henry W., aerospace safety, 2559
- Compton, William B., III, effect on base drag of recessing bases of conical bodies at subsonic and transonic speeds, 1064
- Compton effect, induced, in plasma and electromagnetic waves under astrophysical conditions, 15063
- Comptroller General, *see* General Accounting Office.
- Comptrollers, Air Force comptroller (periodical), 2573
- Computational method for time-optimal space rendezvous, 4742
- Computations, *see* Numerical calculations.
- COMPUTE (time-sharing calculator program), *see* Computer programs/programming.
- Computer literature, bibliography, 1964-67, 2289
- Computer programs/programming:
aerospace ratings, 6418
axial distribution of aerodynamic normal-force characteristics for axisymmetric multistage launch vehicles, 14602
BoSAR, buckling of shells of revolution with various wall constructions, errata, 16120
bottom sediment data program users guide, 12238
Computer programs/programming—Con.
calculating external thermal-radiation heat loads and temperatures of spacecraft orbiting the planets or the moon, 6023
calculation of fire danger, 17024
cells frequencies, 2
analysis-of-variance programs for disproportionate type, 16059
COBOL, common business oriented language, fundamentals, programmers, 6152
CODASYL COBOL journal of development, 13157
composing compressor blading from simulated circular-arc elements on conical surfaces, 16183
computer—
aided filter design manual, 14600
based vocational guidance systems, symposium summary, 16953
display interface study, final report, 16583
mapping, 13759
plotted stereographic projections, 16315
program abstracts (periodical), 16118
coordinate transformations, 10341
data display programming, 994
development of mathematical model and computer program for optimization of VTE saline water plants, 8417
digital-computer design-analysis program for homopolar inductor alternators, description and evaluation, 7261
dynamic response of high rise buildings to nuclear blast loading, analyze, 13783
Edpac utility programs for computer-assisted editing, copy-production, and data retrieval, 6052
ETOM-1, Fortran IV program to process data from ENDF/B file to MUF format, 3815
extracting information from Geo-sort file by computer programming, 13215
evaluating—
forestry opportunities under 3 investment criteria, 15774
timber, production investments under uncertainty, 4311
FAMULUS, computer-based system for augmenting personal documentation efforts, 17036
FORTRAN programs—
analysis of ellipsometer measurements, 7327, 16227
calculating transonic velocities on blade-to-blade stream surface of turbomachine, 16176
calculating velocities—
and streamlines on blade-to-blade stream surface of tandem blade turbomachine, 8611, 14603
in magnified region on blade-to-blade stream surface of turbomachine, 8616
COMPUTE, time-sharing calculator program, 13125
COMPUTE, time-sharing desk calculator program, 1130
dimensional analysis, 10116
first order calculation of properties of beam transport systems, 13278
machine computation of group tables of finite groups, 14641
PDP-8, for reduction of acoustic impedance data, 8764
statement numbers for renumbering, 2436
to estimate off-design performance of radial-inflow turbines, 6011
univariate and bivariate analysis of morphometric data, 7353
future of computer programs in United States Patent Office (address), 1298
ground backscatter from three-dimensional raysets, computer routines for synthesizing, 14165

- Computer programs/programming—Con.
helicopter rotor noise computer program, description, 6454
hydraulic analysis of pipe-arch culverts, 4905, 16381
Investigations—
astronomic latitudes, and their computer programs, 13226
isothermal compressible flow across rotating sealing dam, 16155
Loran-C/D phase corrections over irregular inhomogeneous terrain, 12570
multiple correlations and related statistics, 16059
Nellac-N, the NAREC version of NELIAC programming language, 13273
NETVSL, computer program for calculation of free volumes with interior defect, 4323
nonlinear regression problems, general computer program for solving, 14531
operating personnel, programmers, systems analysts, employment outlook, 4504
programming and analysis for digital time series data, 12386
programs and subroutines for automated cartography, 10221
protecting property in computer software (address), 17318
rigid rotor dynamics, 16125
scheduling allowable cut using either area or volume regulation during sequential planning periods, 8295
sonic boom propagation in stratified atmosphere, 7235
SORAC computer program, user's manual, 12724
stability analysis of slopes and embankment foundations, 16382
supersonic inlets design by computer program incorporating method of characteristics, 2258
viscous, isothermal compressible flow across peeling dam with small tilt angle, 14621
Computers, occupation analysis of computers in medical sciences, 16001
see also Electronic computers—Electronic data processing system.
Computing machines, *see* Calculating machines—Cybernetics.
COMSAT, *see* Communications Satellite Corporation.
Comstock-Indian Wells area, Tex., geology, 4364
Conceicao do Rio Aetna quadrangle, Brazil, geology and ore deposits, 5713
Concentrated foods, *see* names or classes of foods.
Concentration (metallurgy):
Interpreting pan-concentrate analyses of stream sediments in geochemical exploration for gold, 11235
Concentration camps, Stalin-type prison camps still exist in USSR, 5813
Concentrators, two cone-column solar-energy concentrators, calorimetric evaluation, 7281
Conceptual design study of demulsification of fuel emulsions by coalescence process, 11955
Concessions:
National Park Service, visitor accommodations furnished by concessioners, list, 10209
SBA services for concessioners on Federal lands, 7448
Concord River, flood plain information, 9671
Concordances, *see* Indexes.
Concrete:
accumulating fatigue damage to concrete, method of measuring, 1821
air entrainment in mass concrete, 6908
concrete and concreting materials exposed to natural weathering, performance, investigation, 11015
Concrete—Continued
concrete and related materials, evaluation for desalination plants, 2d annual progress report, 4398
concrete-polymer materials, topical report, 7674
cores from Dry Dock No. 2, Charleston Naval Shipyard, S.C., 11014
curing compounds, colorless and water-based, investigation, 11016
eight-piece concrete sets for small mine openings, progress report, 11389
epoxy or polyester resin concrete used in tensile zone of composite concrete beams, 6910
hardened, test methods and results, correlation, 6909
neat portland cement pastes and concretes, shrinkage, interrelations between cement and concrete properties, 7319
outside concrete shelter, home fallout shelter, 6516
preplaced-aggregate, resistance to freezing and thawing, 604
reinforced, bridge members, ultimate design, strength and serviceability criteria, 16390
sets, five-piece, for small mine openings, progress report, 7219
status on, investigation of methods for removing, 1824
trade and tariff information, summaries, 13500
unreinforced, tunnel linings, structural design data, 16097
vibration, mechanical impedance measurements, study, 15667
Concrete beams:
reinforced, ductility, effect of confining reinforcement, 8185
tensile zone of, use of epoxy or polyester resin, concrete, 6910
Concrete mixers, automobile excise tax, impose, report, 453
Condemnation of land, *see* Condemnation of property—Eminent domain.
Condemnation of property:
private, for public use, how Federal income tax applies, 5767
procedural guide for acquisition of real property by governmental agencies, 4458
see also Eminent domain.
Condensation:
behavior of liquid surfaces during evaporation and condensation, 2012
three-phase heat transfer, transient condensing with freezing on nonisothermal inclined plate, 13093
Condensed milk, *see* Milk.
Condon, Lester P.:
addresses, etc.—
Oct. 10, 1969, 15825
Oct. 15, 1969, 17089
Conduct of life, acquisition and development of values, perspectives on research, conference report, 14682
see also Ethics.
Conduction of heat, *see* Heat transfer.
Conductivity (electric), *see* Electric conductivity.
Conductors (electric), *see* Electric conductors.
Conductors' Division of United Transportation Union, emergency board report, 8177
Conduits:
engineering and design manual, 5570
fittings, Federal item identification guide, 531
outlets, Federal item identification guide, 532, 5487
stress analysis of single barrel conduits by Beggs deformeter, 1364
see also Electric conduits.
Condyloderes, *see* Kinorhyncha.

- Cone, Clarence D., jr.:
 micro lagoon technique for culture and observation of isolated mammalian cells, 1122
 mitotic synchronization of L-strain fibroblasts with 5-aminouracil as determined by time-lapse cinephotography, 4744
 osmotically induced coalescence of sarcoma cells through intercellular bridges in vitro, 4745
 process for imprinting micro lagoon fields in plastic surfaces for use in cell and tissue culture, 11470
- Cones:
 ablating and nonablating, upwash patterns at hypersonic speeds, 13121
 angle of attack and bluntness effects on—laminar heating-rate distributions, 16190
 shock-layer properties of 15° cone, 1124
 blunted-cone, cone-frustum reentry configuration at Mach 10, laminar heat-transfer distributions, 7299
 circular, Newtonian aerodynamics, modified to produce lift at zero angle of attack, 10124
 cone angle, base flare angle, and corner radius effects March 3.0 aerodynamic characteristics of large-angle cones, 7254
 conical surfaces, computer program for composing compressor blading from simulated circular-arc elements on, 16183
 experimental pressure distributions on 120° cone at Mach numbers from 2.96 to 4.63 and angles of attack from 0° to 20°, 7257
 5° half-angle cone at Mach 8, effect of unit Reynolds number, nose bluntness, angle of attack and roughness on transition, 2259
 laboratory vane shear and fall-cone devices, comparison of shear strength measurements, 12345
 large-angle—
 pointed cones in helium at Mach numbers of 8 and 20, shock shapes and pressure distributions, 13120
 supersonic lifting capabilities, 17244
 with and without cylindrical afterbodies, supersonic aerodynamic characteristics and shock standoff distances, 14613
 140°, 160°, and 180° cones pressure distributions at Mach numbers and angles of attack, 10127
 plates, etc., force-penetration characteristics of a sand horizontally penetrated by, 4673
 sharp cone-cylinder spikes on 120° blunted cones at Mach numbers, 11453
 spherically blunted 25° half-angle cone at Mach 8 and angles of attack up to 90°, heat-transfer and pressure distributions, 1056
 two cone-column solar-energy concentrators, calorimetric evaluation, 7281
 vortex shedding from bodies of revolution undergoing coning motion, 17208
 wake of 120° cone at Mach number 2.20, experimental flow properties, 13135
see also Conifers—*also* names of conifers.
- Coney, Thom A., effect of flow rate on dynamic contact angle for wetting liquids, 7285
- Conferences:
 current industrial reports, 2782, 9128
 manufacturers' sales and distribution, 10588
 trade and tariff information, summaries, 10431
 Confederate States of America, archives of Government, guide, 1150
 Confederated Salish and Kootenai Tribes of Flathead Indians, *see* Flathead Indians—Kootenai Indians.
- Confederated Tribe of Umatilla Reservation, *see* Umatilla Reservation.
- Conference committees, reports, 6697, 10746, 12166, 15279, 15281, 16788, 16790, 16793, 16797, 16804
- Conference on Small-Area Statistics, American Statistical Association, papers presented, 5208
- Conferences, congresses, etc.:
 citizen participation today, HUDD staff proceedings, 9943
 convention on Recognition and Enforcement of Foreign Arbitral Awards, report, 1724
 convention on transit trade of landlocked States, report, 1725
 grassroots conferences sponsored by Office of Programs for Disadvantaged, recommendations, 9660
 health, 18-month calendar of national meetings, 1969–70, list, 2420
 Institute of History of Natural Science and Technology, 10th scientific conference, transactions, 14651
 international organization and conference series, 7488, 8883
 International Working Conference on Freeze-Preservation of Blood, 11572
 long-range polar objectives, proceedings, 11756
 1968 International Conference on Modern Trends in Activation Analysis, 11521
 9th scientific conference of graduate students and junior scientific associates of Institute for History of Natural Science and Technology, section on history of aviation and cosmonautics, transactions, 11505
 pointers on conference leadership, 4855
 United States conventions and exhibitions, 1482
 world list of future international meetings, 3610
see also names of conferences, etc.,—*also* subject of conference.
- Confidential material:
 census confidentiality, how it grew, 11995
 safeguarding—
 classified information, FAA handbook, 626
 industrial security manual, 12361
- Configuration management:
 configuration status accounting data elements and related features, military standard, 6841
 engineering changes, deviations and waivers, military standard, 6840
- Configurations:
 aerodynamic—
 characteristics of sailing of aspect ratio 5.9, full-scale investigation, 6007
 interference effects caused by parallel-staged aerodynamic configurations at Mach numbers of 3 and 6, 14627
 Apollo launch-escape vehicle, transonic aerodynamics characteristics of powered models, 1075
 coaxial, mixing of compressible air jets in, experimental investigation, 11492
 effects of 3 outlet-annulus area blockage configurations on performance of 20-inch (50.8 cm) axial-flow compressor rotor, 17249
 high performance turboalternator and associated hardware, 7230
 liquid-vapor interface, in toroidal tanks during weightlessness, 1063
 static equilibrium configuration of cable arrays by use of method of imaginary reactions, 10257
 tabulations of configuration factors between any 2 spheres and their parts, 16151
 water lubricated herringbone-groove journal bearings, stability experimental effects of configuration and groove to ridge clearance ratio, 11475

- Conflict of interests:
 CPSU military leadership conflicts denied, USSR study, 5856
 Post Office Department, laws relating to conflict of interest, 4854
 Conformal maps, interior of unit circle onto interior of class of smooth curves, 10090
 Congenital malformations, *see* Deformities.
 Congo (Brazzaville):
 background notes, 14897
 Congo (Kinshasa):
 agricultural commodities, agreement, 6276, 11728
 capsule facts for Armed Forces, 127
 civil aviation survey, final report, 12854
 economic trends and their implications for United States, 2028, 7107, 17109
 getting Congolese agriculture moving, evaluation of agriculture and related self-help, 5489
 Congo (Leopoldville), *see* Congo (Kinshasa).
 Congress of United States:
 code of Federal regulations, 12629
 concern with research and development, bibliography, 471, 14035
 congressional oversight of administrative agencies, National Labor Relations Board, hearings, 4087
 appendix, 5454
 congressional record—
 90th Cong., 1st sess., bound volumes, 325-339, 1672-75, 3929
 daily digests, 2687, 3930
 indexes, 2688, 6554
 90th Cong., 2d sess., bound volumes, 9227-29, 10669-673, 12076-79, 13824-829, 15185-188, 16716-717
 directory—
 official edition, 91st Congress, 1st sess., 6555, 7819
 pictorial, 91st Congress, 3928
 enactment of law, procedural steps, print additional copies, report, 16861
 information and data processing systems, establish—
 hearing, 9350
 report, 9305
 legislative reorganization act of 1946, amendments, text, 463
 legislative reorganization act of 1967, text, 463
 legislative reorganization act of 1969, reports, 9432, 10842
 Members—
 appointment to civil office prior to pay increase, opinion of Attorney General, 14433
 issuance of two congressional automobile tags to each, authorize, report, 12181
 letters from Dept. of Justice, pamphlet accompanying microcopy, 2277
 salary reform, recommendations, message from the President, 3971
 officers, salary increase—
 law, 16733
 reports, 6656, 8029, 10849
 our national legislature, 1564
 reports to be made to Congress, list, 3963
 technical information for Congress, 7975, 12149
 reprint, report, 10758
see also Congressional documents.
 Congress, Special Committee on Organization of, Senate, committee print, 463
 Congressional committees, employees, payment of compensation, report, 5345
 Congressional districts:
 91st Congress—
 atlas, 1618
 maps, 7753
 population, 5201
 Congressional documents:
 numerical lists and schedule of volumes, 90th Congress, 2d session, 11601
 Congressional documents—Continued
 selected excerpts on civil defense from published documents, 264
 Congressional list (series), 11276
 Congressional Medal of Honor, *see* Medal of Honor.
 Congressional record, *see* Congress of United States.
 Congressional serial set, 1677-80, 3933-35, 5308-15, 6558-60, 7821-26, 9231, 10676-678, 12080, 13830-833, 15189-193
 Congressional Space Medal of Honor, *see* Space Medal of Honor.
 Conical bodies, *see* Bodies of revolution.
 Conical shells, *see* Shells (structural).
 Conifers:
 animal damage to conifers on national forests in Pacific Northwest region, 11192
 cone production in red pine, do pine gall weevils affect? 11175
 cones, and seed insect survey on seed production areas, Clark, Mark Twain, and Shawnee National Forests, 7005
 conifer foliage, volumeter for estimating quantity, 9853
 juvenile height growth, in upper slope of Washington and Northern Oregon Cascade Range, 8306
 Maine, specific gravity, survey, 686
 Poria weirii survival in conifer and mixed conifer-alder stands, 1915
 portable apparatus for estimating stomatal aperture in conifers, 12693
 seedlings, investigations of shingle tow packing material for, 692
 upper-slope, seasonal height growth, 691
 Conkley, Thomas J., generalized averaging method for linear differential equations with almost periodic coefficients, 7302
 Conn, Richard, United States and International Labor Organization, 16006
 Conn, Virginia, direction for Navy commanding officers and public affairs staffs, 2771
 Connecticut:
 electric rate book, 1874, 14216
 Agricultural Stabilization and Conservation Service, annual summary, 10468
 census of business, 1967—
 retail trade, area statistics, 11985
 selected services, area statistics, 16645
 county business patterns, 16659
 dealers in trout and pondfishes, list, 11684
 Federal outlays, report of Federal Government's impact by State and county, 9539, 9589
 Interstate Air Quality Control Region, report for consultation, 13368
 mineral industry, minerals yearbook chapter, 948
 preliminary reconnaissance for uranium, 7701
 Connectors (electric):
 electrical connectors, test methods, military standard, 12370
 Federal item identification guide, 12357
 posts, splices and terminals, Federal item identification guide, change, 5488
 Connellia, *see* Bromellaceae.
 Connelly, J. A., two automatic sirup draw-off controllers, 6360
 Conrad, E. William, interim summary of liquid rocket acoustic-mode-instability studies at nominal thrust of 20,000 pounds, 2262
 Conscription:
 draft reform, message from the President, 9256
 legal aspects of selective service, 2444
 local board memoranda, 3084
 military selective service act of 1967, amend, hearings, 16813
 selecting persons for induction into Armed Forces, establish new system, hearings, 16813

Conscription—Continued
 selective service (periodical), 3431
 selective service regulations, 3432
 you and the draft, 14853
 Conservacion del suelo y del agua en el mundo, 11673
 Conservation, *see* Natural resources—Soil
 Conservation—*also* subjects.
 Conservation aids waterfowl, 57
 La conservation du sol et des eaux dans le monde, 11673
 Conservation highlights, 8862
 Conservation irrigation, *see* Irrigation.
 Conservation notes, 7468
 Conservation research reports, 4296, 8949
 Consie, R., vacuum freezing, vapor compression process, 1 to 5 million gallon per day desalting plants, 11287
 Consolidated master cross reference list, 1785, 8130-31, 10949, 15523
 Consortiums in American higher education, 576
 Constance, Ky., aircraft accident, 16285
 Constantinescu, V. N., lubrication in turbulent regime, 3794
 Constitution (IX-21) (U.S.S.):
 retired officers to command, authorize, report, 16794
 Constitution of United States:
 amend to revise electoral college reform, hearings, 6722, 13940, 14048
 amendments—
 election of the President and Vice President by direct popular vote, proposal, reports, 15227, 15229
 school prayer, hearings, print additional copies, report, 7915
 voting, lower age to 18, hearings, 490
 study, authorization, report, 5409
 constitutional rights—
 American Indian, amendments, report, 12262
 protect Federal employees, hearings, 412
 study, authorization, report, 5410
 constitutional separation of powers between executive, judicial, and legislative branches of Govt., study, authorization, report, 5411
 our Constitution and Government, Federal textbook on citizenship, 12819
 25th amendment, 90th Cong., 1st sess., 5638
 text, 7838, 9378
 Constitution Week, bulletin, 11274
 Constitutional rights, *see* Constitution of United States.
 Constructing cardiac function algorithm, USSR, 12908
 Construction, *see* Building—Building trades—Construction industry—Earthwork and structures—Installations (military)—Roads and highways.
 Construction equipment, *see* Building machinery.
 Construction industry:
 census of business, 1967, publication program, 10593
 construction authorized, Washington, D.C., area, 2689
 construction reports, 223, 2689-95, 3833-34, 11996-997, 16657
 construction review, monthly industry report, 2696
 health and safety in Federal and federally financed construction projects, promote—
 hearings, 10778
 law, 15202
 reports, 9293, 9322, 12269
 metals consumed in construction, 5198
 projects, common situs picketing, hearings, 12215
 Puerto Rico, data pertinent to review of minimum wage rates, 10448

Construction industry—Continued
 rising construction costs and anti-inflation policies, report on Western Europe, 14464
 safe work guide, Department of Labor safety training program, SWG LS series, 5891, 17147-151
 safety, impact of model cities program (remarks), 778
 supervisors, construction industry safe work guide, 17150
 value of new construction put in place, reports, 2695
see also Building.
 Construction labor, *see* Labor.
 Construction machinery, *see* Building machinery.
 Construction machinery operators, *see* Operating engineers.
 Construction materials:
 concrete-polymer materials, topical report, 7674
 light aircraft, potential structural materials and design concepts, 7229
 Construction Safety Standards Board, establish, hearings, 9482
 Construction workers, wage requirements, prevailing, on construction of FHA-insured multifamily housing projects, labor standards, 7069
 Consuls:
 convention on consular relations with optional protocol concerning compulsory settlement of disputes—
 report, 16836
 text, 9384
 convention with, Belgium, text, etc., 15353
 foreign consular offices in United States, 8879
 U.S., despatches, pamphlet accompanying microcopy—
 Chihuahua, 1830-1906, 7315
 Guaymas, Mexico, 1832-96, 14660
 La Paz, Mexico, 1855-1906, 16219
 Manzanillo, Mexico, 1855-1906, 6031
 Nogales, Sonora, Mexico, 1889-1906, 10167
 Tuxpan, Veracruz, 1979-1906, 7316
see also Foreign Service.
 Consultants, foreign curriculum consultant program, for American schools, colleges and State departments of education, 14135
 Consumer Affairs Department, establish, hearings, 14034
 Consumer and Marketing Service:
 appropriations, 1970—
 hearings, 9329
 report, 12254
 C&MS series, 504-507, 4104, 6806-13, 8098-8101, 9495-98, 12324-326
 PMG series, 1750, 9505, 14066, 16903
 poultry plants, federally inspected, enforcement of sanitary, facility, and moisture requirements, GAO report, 14315
 publications available, list, 8099
 regulations, inspection and certification of processed fruits and vegetables, etc., 12329
 service and regulatory announcements, 1751, 15483
 Consumer credit, *see* Credit—Installment credit.
 Consumer education:
 bibliography, 8776
 what it is and what it is not, 6163
 Consumer finance companies *see* Finance companies.
 Consumer goods, *see* Commercial products—Consumer credit.
 Consumer income, *see* Income.
 Consumer Interests, President's Committee on, *see* President's Committee on Consumer Interests.

- Consumer Protection and Environmental Health Service:
 appropriations, 1970—
 hearings, 10766
 report, 12197
 food standards for Nation's food supply as CPHS sees it (address), 16337
 general information, 1332, 4875
 Consumer Research Institute, establish, hearings, 14034
 Consumer Safety Office, establish, hearings 14034
 Consumers:
 and the farmer, 8967, 14990
 bibliography on marketing to low income consumers, 3826
 buying indicators, series, 246, 5225, 9169, 13770
 consumer bulletins, 5744-47, 9831, 14238
 consumer relations newsletter, 2702
 credit insurance act of 1969, hearings, 15418
 credit, protection against arbitrary, erroneous, and malicious information, hearings, 10888
 District of Columbia protection program, Federal Trade Commission report, 6984
 fight back, the ungentle art of self defense as recommended by Federal Trade Commission, 6985
 HEW consumer newsletter, 9941
 information, publications, price list, 4868
 national consumer protection hearings, 17005
 price indexes—
 city average and selected items, 2700
 selected items and groups, 2701
 private industry role (address), 10639
 publications, list, 790
 sanitation handbook of consumer protection programs, 6817
 service, USDA's report (periodical), 3434
 unordered merchandise, shipper's obligations and consumer's rights, 14238
 utility consumers' counsel act of 1969, hearings, 5449, 6789, 9467, 12301, 14038
 print additional copies, report, 12275
 see also Consumer education.
 Contact lenses, characteristics of persons with corrective lenses, 10339
 Contacts (electric), see Electric contacts.
 Contagion and contagious diseases:
 grants for communicable disease control, authorization, hearing, 14054
 infectious disease research under aerospace profiles, use of unique altitude chamber, 3702
 morbidity and mortality weekly report, 3148
 seasonal aspects of infectious diseases and their causes, USSR study, 12877
 World War II, infectious diseases and general medicine, 6463
 Containers:
 aerosol, methods of analyzing organophosphorus insecticides, trichloromethaphos and carbophos, USSR study, 15954
 cargo, ocean freight forwarding future (remarks), 15712
 closures, current industrial reports, 225, 2732, 11999
 containerization—
 inter-American trade (remarks), 14209
 new action program (remarks), 15891
 ocean transportation (remarks), 639
 problems and benefits (remarks), 316
 regulatory jurisdiction over joint shipping rates in foreign countries (remarks), 15713
 San Diego Port (remarks), 1869
 containerized unit loads, military standard, 16924
 Containers—Continued
 containerships under construction and on order (including conversions) in United States and foreign shipyards—
 June 30, 1968, list, 14485
 Dec. 31, 1968, list, 14486
 customs convention, 7515
 effects in cushioned packages, urethane foam corner pads, 17037
 experimental export shipment of cotton in containers, report, 16054
 the exporter, the importer, and the container (remarks), 916
 Federal item identification guides for supply cataloging, supplements, 2844
 flag containerships and flag ships with partial capacities for containers and/or vehicles, U.S. list, 14493-494
 glass, current industrial reports, 2732
 industry report, 2703
 land bridge, fact or fiction? (remarks), 12994
 overseas shipping tests of California citrus on pallets and in containers, 16547
 rigging, for airdrop, Army technical manual, 179
 shipping conferences and containerization (remarks), 4259
 symbols for hazardous industrial chemicals and materials, military standard, 14108
 trade and tariff information, summaries, 1463
 Containment, ion, in magnetic fields, electron analog simulation analysis, 8653
 Contaminants, contaminant and atmospheric sensor, analytical study, phase 1, 16122
 Contamination:
 environmental, clean room technology, 13061
 pollen, cooling Douglas-fir seed orchard to avoid, 12705
 radium in aircraft instrument repair facilities, evaluation, 14790
 signs for contaminated or dangerous areas, military standard, 1788
 virus on surfaces contaminated by virus aerosols method for determining, USSR study, 7145
 Contempt of Congress:
 proceedings against—
 McCurely, Alan, report, 8035
 McCurely, Margaret, report, 8035
 Contested elections, Wyman C. Lowe vs. Fletcher Thompson, report, 7901
 Contests, tax information for sponsors of contests and sporting events, 5778
 Continental Shelf:
 and slope, Atlantic, 19th century exploration, 1966
 artificial islands and fixed structures, rules and regulations, 3889
 Atlantic, and slope of United States, color of marine sediments, 5716
 continental margin, oceanographic cruise summary, 13223
 drilling on continental margin off Florida (series), 12779
 offshore mineral resources, challenge and opportunity, report, 17366
 sand and gravel off northeastern U.S., 5708
 Continuing Action for Human Rights, National Conference, see National Conference on Continuing Action for Human Rights.
 Continuous washing of brine from ice, 9972
 Continuum theory for elastic solid with elastic micro-inclusions, 7241
 Contract Administration Services:
 DoD Contract Management Conference—
 CAS techniques, 1773
 computer communication network, 1776
 engineering role, 1777
 evaluating contractor performance and capability, 1782

Contract Administration Services—Con.
DoD Contract Management Conference—
 Continued
 logistic system interfaces, 1781
 management science in procurement cycle, 1772
 manpower resources, 1774
 operations evaluation, 1771
 organization for CAS, 1770
 pricing, 1783
 proceedings, 1769
 production surveillance and reporting, 1779
 property management, 1780
 quality assurance, 1778
 recommendations, 6831
 resources management, 1775
Contract Appeals Board:
 decisions, 2987
 Veterans Administration, contract appeals decisions, index-digest, 6334
Contract Appeals, Government Board of,
see Government Board of Contract Appeals.
Contract data management, 3687
Contractions, *see* Abbreviations.
Contractor report NASA CR (series), 992-1037, 2182-2209, 4660-89, 5970-86, 7225-42, 8589-8603, 10068-91, 11402-409, 13039-52, 14567-571, 16120-146, 17186-212
Contractors:
 contractor data management, 11896
 data and reports, management, lists, 3687, 11896, 15014
 Defense Dept., increased costs to Government attributed to leasing rather than purchasing land and buildings, GAO report, 711
 developing human resources, AEC contractors' affirmative action programs, 15079
 FHA property improvement loans, guide, 14388
 NASA contractors trim cost, 4690
 National Highway Safety Bureau contractors report, executive summaries, 16239
 quality program provisions for aeronautical and space system contractors, 11509
 U.S. in Vietnam, difficulties in arranging air support services, GAO report, 706
 value engineering, design or manufacture simplification performed by contractors, opportunities for increased savings by improving management, Defense Dept., GAO report, 14321
see also Government contracts.
Contracts:
 major collective bargaining agreements, subcontracting, 10014
 summaries of solid wastes program contracts, 14809
 TOFC, between freight forwarder and railroads, permit, amend interstate commerce act, 462
 union, expropriations 1969-70, in north central region, 14465
 unordered merchandise, shipper's obligations and consumer's rights, 14238
see also Government contracts.
Control (vehicle), *see* Aircraft automatic pilots—Airlanes—Spacecraft.
Control areas and zones, *see* Airways.
Control of agriculture-related pollution, 3634
Control equipment, *see* Ships.
Control rods, nuclear thermionic space power concept using rod control and heat pipes, 10152
Control systems:
 adaptive systems, USSR study, 838
 adjustment of adaptive systems investigated, USSR study, 2068
 aeronautical, control problems, advanced electronic applications, study, 4670

Control systems—Continued
 AFOTC management control system, data base, development, 10509
 automatic—
 4th all-Union conference, 2075
 large systems conference, summaries of USSR papers, 2056
 classical 5th-, 6th-, 7th-, and 8th-order Runge-Kutta formulas with stepsize control, 1145
 communications media, USSR study, 12879
 commutated networks employing feed back circuits, analysis, 1111
 contractor data and reports, management, lists, 3687, 11896, 15014
 cybernetics and control theory, USSR studies, 5810
 cybernetics and regulation theory, USSR study, 5831, 17131
 direct lift control system during approach and landing, flight tests, 1080
 explorer XXXV attitude control system, 11451
 external drive system for all-attitude air-bearing research and training simulator, 1547
 interim management control systems list, 10951
 management systems, regulation and control, USSR study, 15898
 manual aerospace control systems, synthesis methods for, with applications to SST design, 2191
 manual backup, for Saturn V launch vehicle, detailed study, 11473
 manual control analysis of large flexible booster, evaluation of a pilot describing function method applied, 11447
 manual guidance and control techniques for large launch vehicles, 8632
 New Florence, case study for 1970 censuses of population and housing, administrative requirements, 12018
 nonlinear, computation of regions of constrained stability, 11408
 plenum air cushion, including passive and active control concepts, heave response, 8619
 proprioceptive cues and their influence on operator performance in manual control, 4672
 single controller multiloop tasks, measurement of pilot describing functions, 4669
 space vehicle flight, analysis and design, 10068
 spacecraft attitude, response envelope, global description of three-axis large-angle, 1113
 surface-to-air missile series, engineering design handbook, 3736
Controllers, *see* Air traffic controllers.
 Controlling white-fringed beetles, 16544
Controls (aircraft), *see* Aircraft.
 Convection of heat, *see* Heat transfer.
Conventions, *see* Conferences, congresses, etc.
 Conventions and treaties, *see* subjects.
Converse (U.S.S.):
 loan, extension, agreement with Spain, 16182
Conversion of retrospective catalog records to machine-readable form, 11361
Converters:
 advanced converter reactors, evaluation, 10568
 inverter-converter parallel operation, 4663
 static inverters and magnetic materials for evaluation, 4661
see also Electric current converters.
Conveyors:
 air jet, for handling seed cotton and cottonseed, 4
 pneumatic dispatch, classification definitions, 1293

- Conveyors—Continued
store service, classification definitions, 2371
- Conway, Bruce, analysis of operation of mass measuring system in an orbiting spacecraft, 6005
- Conway County, Ark., community profile, 15551
- Coochs Bridge, Del., floods, how to avoid damage, 12494
- Coogan, Charles H., jr., development of analytical model of flash stage, 797
- Cook, Alton B., effects of pressure, temperature, and type of oil on vaporization of oil during gas cycling, 11392
- Cook, Anthony M.:
large-scale wind-tunnel investigation to improve low-speed longitudinal stability at high lift of supersonic transport with variable-sweep wings, 4733
wind-tunnel investigation of low-speed high-lift aerodynamics of one-fifth scale variable-sweep supersonic transport, 1076
- Cook, Audrey A., farm index, 2819
- Cook, Charles R., printing and publishing, quarterly industry report, 3334
- Cook, Harvey R., selecting advertising media, 10359
- Cook County Hospital, Chicago, Ill., medicare payments for services of supervisory and teaching physicians, GAO report, 17055
- Cookery, publications, price list, 2403
- Cooking appliances, current industrial reports, 2732, 3846-47
- Cooks:
disadvantaged young men prepare for well-paying careers in maritime fleet training program, 4195
job grading standard, 3879
- Cooks Branch, Tex., flood plain information, 12461
- Coolants, alternate coolant fast breeder reactors, evaluation, 9076
- Cooley, M. E., regional hydrogeology of Navajo and Hopi Indian reservations, Ariz., N. Mex., and Utah, 8353
- Coolidge, A. W., jr.:
development and inverter testing of high-temperature cesium-vapor thyatrons, 16142
reduction of recovery time in high-temperature cesium vapor thyatrons, 16133
- Cooling:
cooled pipe, transient solidification outside, with application to solar Brayton heat receiver, 1114
effects of vent holes on strength of fiberboard boxes and fruit cooling rate, 6357
experimental forced-air precooling of Florida citrus fruit, 8971
human brain, devices for, USSR study, 12882
production of temperatures below 1° K by diabatic demagnetization of cerium-barium metaphosphate (CBP) glass, 1258
transpiration cooled turbine blades, flow reduction due to oxidation of wire-form porous sheet, analytical study, 4729
transpiration cooled gas turbine blades, oxidation resistant materials, wire specimen tests, 1012
- Cooling systems, turbine blade, steady-state stress relaxation analysis, 13089
- Cooper, Barbara S.:
national health expenditures, 16418, 17382
public and private expenditures for health, 2455
use of general hospitals by aged psychiatric patients, study, 8855
- Cooper, G. Arthur, new Permian brachiopods from west Texas, 14859
- Cooper, George E., use of pilot rating in evaluation of aircraft handling qualities, 8633
- Cooper, Glenn A., durable rustic wooden signboards, 17040
- Cooper, James B., ground-water exploration in Bosque del Apache Grant Socorro County, N. Mex., 12775
- Cooper, James D.:
clays, 931
kyanite and related minerals, 14532
- Cooper, Paul A., effect of shallow meridional curvature on vibration of nearly cylindrical shells, 11446
- Cooper, Robert W., preliminary guidelines for using suppression fires to control wildfires in Southeast, 7018
- Cooperage, coopering, classification definitions, 1281
- Cooperation, *see* International cooperation.
- Cooperative area manpower system, concentrating manpower services against poverty, 7163
- Cooperative education program, Department of Army, 7660
- Cooperative Extension Service:
community resource development, how cooperative extension works, 5061
general information, 11879
- Cooperative housing, *see* Housing.
- Cooperative State-Federal Brucellosis eradication program, 11
- Cooperative State Research Service:
appropriations, 1970—
hearings, 7945
reports, 9311, 12254
CSRS series, 6818
- Cooperatives:
development under foreign assistance act of 1961, report, 6708
now and in future, 12578
see also Banks for cooperatives—Farmers' cooperative organizations.
- Coordinated Federal wage system, hearings, 413
- Coordinates:
complex systems modeling, USSR book, 5857
Fourier analysis by method of selected ordinates, 7267
generation of ideal coordinate systems for analysis of optimal trajectories, 1037
State plane coordinate intersection tables, 15152
transformations—
elastic constants for anisotropic media by successive simple rotations, 7214
electronic computer program for, 10341
- Coordination tests, Step Test of motivation to excel, 14518
- Coordinates of management training for small business, guidebook, 13410
- Coordinator's scorecard (periodical), 2705
- Coordinator's scoreboard, review of what's new in placement of the handicapped, 15136
- Coos Bay:
engineers report—
departmental edition, 15653
document edition, 15221
- Coosa River and Valley, and its tributaries pollution of interstate waters, conference proceedings, 662
- Coots:
hunting, possession, transportation, importation, 1969-70, Federal regulations governing—
Alaska, 13461
United States, etc., 14884
- Cope, E. M., cost of operating an automobile, 4253

Copeland, William L., resources for biomedical research and education, full-time medical school faculty, 7347

Copepods:
 deep sea Cerviniidae (Copepoda, Harpacticoida) from western Indian Ocean, 17376
 five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska, 14860

Copes, Donald, effect of graft type on 6-month scion survival of field grown Douglas-fir graft, 15759

Copolymers, *see* Polymers and polymerization.

Copper:
 alloys in vacuum, sliding friction, 1065
 content, effects on disposal of effluents from desalination plants, 9973
 copper-alumina and copper-yttria alloys, dispersion strengthening, 11382
 copper-point blackbody and furnace, construction and operation, 8672
 copper-rich Cu-Ni-Fe alloys, Mössbauer effect study of magnetic ordering, errata, 1180
 dispersion-strengthened, its preparation and properties, 5955
 distribution, McCarthy B-4 and B-5 quadrangles, Alaska, 742
 extraction from oxides using iron and steel scrap, principles and application to pure systems, 16101

Industry—
 problems (address), 1611
 quarterly report, 2707
 1968 annual statistical supplement, 10589

Industry, mineral industry surveys—
 annual supplement, 7204
 monthly, 2706

LEED studies, adhesion of gold to—
 copper and copper-aluminum alloys, 13126
 various planes of copper, 13094
 market and price outlook (address), 11310
 mill and foundry products, current industrial reports, 2733, 9130
 minerals yearbook chapter, 935
 removal from steel scrap by thermal treatment, 4640
 zinc-copper-titanium alloy, effect of varied extrusion temperature on properties, 4649

Copper mills, inventories of shapes, current industrial reports, 2732-33

Copper sulfate, mineral industry survey, monthly, 2708

Copying process:
 copying shoe lathes, suspension of duty, continue—
 law, 15204
 reports, 7898, 10846

Copyright:
 bibliography, 521, 14069
 books, general information 14072
 catalog of copyright entries, 515-520, 1762-65, 4114-18, 5471-72, 9508, 14067-68, 15485-488, 16904
 code of Federal regulations, 8234
 fair use of copyrighted works, 15489
 general information, 16905
 international copyright protection, 12334
 law of United States, 12332
 law, revision, hearings, index, 481
 laws, investigation, authorization, report, 5414
 machine translations, copyrights for, USSR consideration, 12954
 protection, extend duration, report, 16849
 radio and television programs, general information, 10931
 status of work, how to investigate, 12333

Copyright Office:
 author's publishing and recording arrangements, 6820
 bulletins, 12332

Copyright Office—Continued
 circulars, 521-522, 6820, 10931, 12333
 334, 14069-72, 15489, 16905
 Register of Copyrights, annual reports, 514, 10930
 regulations, 522

Coral reefs and islands:
 atoll news and comment, 1380
 atoll research bulletins, 1380, 8851, 10361, 17371

Corcoran, Charles S., electrical component development for 400-hertz Brayton energy conversion system, 1097

Corcoran, John P., relief, 16837

Cord, Marian S., microwave special tables, polyatomic molecules without internal rotation, 1173

CORD, commissioned officer residency deferment program, 4897

Cordage trade and tariff information, summaries, 1461

Cordell, Harold K., planting grass appears impractical for improving deteriorated recreation sites, 9860

Cordilleran formations, northern, Carboniferous megafaunal and micro-faunal zonation, 11245

Cordova, R. M., selected hydrologic data, Southern Utah and Goshute Valleys, Utah, 14361

Core drilling:
 drilling on continental margin off Florida (series), 12779
 rotary coring of Appalachian area oil-producing formations with mud or air, 7212

Cores:
 concrete cores from Dry Dock No. 2, Charleston Naval Shipyard, S.C., 11014
 super conductive dust cores for inductive elements, 7295

Cores (atomic), *see* Reactors (atomic).

Corfitzen, William E. jr., market factors in Yugoslavia, 9205

Corliss, William R.:
 exploring the moon and planets, 10093
 linking man and spacecraft, 11422
 putting satellites to work, 11421
 space physics and astronomy, 11420
 spacecraft tracking, 8604
 teleoperator controls, AEC-NASA technology, survey, 7246

Corn:
 futures—
 commitments of traders, 2680
 trading and open contracts, 2931
 high-moisture, guidelines for mold control, 7587
 production and export in Brazil, prospects for 1970's 15624

Corn Belt, western, beef cattle feedlots, characteristics, 6385

Corn Creek unit, *see* Missouri River Basin project.

Corn earworms, *see* Bollworms.

Corn oil, and beef tallow influence on growth of channel catfish, 10401

Corning, Peter A., evolution of medicare . . . from idea to law, 13438

Coronary diseases, *see* Heart diseases.

Corporation for Public Broadcasting, *see* Public Broadcasting Corporation.

Corporations:
 agricultural operations, preliminary report, 8152
 banking and financing under Federal reserve act, regulations, 4278
 corporate reorganization releases, SEC, 2709
 corporations and Federal income tax, 12829
 doing foreign banking or financing that maintain reserve accounts with Federal reserve banks, list, 6977
 foreign corporations, withholding tax, 8456
 income tax returns, statistics, 5777, 7099

INDEX 1969

- Corporations—Continued
 - income tax speed-up payments—
 - amendments, summary, 432
 - conference decisions, summary, 5439
 - manufacturing, quarterly financial report, 3354
 - multiple, tax reform hearings, summary of testimony, 10811
 - role of giant corporations in American and world economies, 16899
 - sales, profits, and dividends, quarterly report, 3109
 - subchapter S, tax reform hearings, summary of testimony, 15346
 - surecharge, continue—
 - hearings, 10895
 - public hearings, 10808
 - reports, 10739, 10742, 12270
 - tax reform hearings, tax treatment—
 - foreign tax credit and deferred executive compensation, written statements of witnesses, 7986
 - press release announcing tentative decisions, 9376, 13945
- Corpus Christi, Tex. port, general data, 12546
- Corrals:
 - farm building plans—
 - corral with curved chute for beef cattle, 7605
 - portable corral-transport, 6389
 - sheep, 8974, 16549
- Correctional facilities, *see* Reformatories.
- Correctional institutions, *see* Reformatories.
- Correctional officers, Federal Prison Service examination announcement, discontinuance notice, 16679
- Correctional rehabilitation, *see* Rehabilitation of criminals.
- Correlation (statistics):
 - programs for computing multiple correlations and related statistics, 16059
- Correspondence, Defense Supply Agency, manual, change, 12352
- Correspondence schools and courses:
 - Army courses, announcements, 1578, 5113
 - catalog, Coast Guard Reserve personnel on inactive duty, 13800
 - Industrial College of Armed Forces—
 - national security management information booklet, 556
 - program of studies, 12873
 - Navy, training manuals and correspondence courses, lists, 1251, 13271
- Corrosion and anticorrosives:
 - corrosion—
 - and encrustation, evaluation and control in tube wells of Indus Plains, West Pakistan, 7058, 14343
 - and protection of steel piling in seawater, 14149
 - cobalt alloy, two-phase mercury loop, 13109
 - fatigue crack propagation studies of new high-strength structural steels, 13291
 - products of iron and their relation to corrosion in steam-generating equipment, 13293
 - resistance of some common metals to be concentrated and 6% solutions of light water fire-extinguishing agent, 17315
 - Egypt's corrosive ground waters, selection of metal components for long-term development, 14357
 - hot-salt-stress-corrosion—
 - cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium-alloy sheet, 16170
 - titanium alloy under simulated turbine-engine compressor environment, 17251
 - titanium alloys, hydrogen generation and its embrittling effect, 4728
 - iron base alloy, low cost, corrosion resistance in hot sea water, development, 4401
- Corrosion and anticorrosives—Continued
 - metals in tropical environments, 14744
 - salt deposits in compressors of flight gas turbine engines, survey, 5994
 - sea water corrosion—
 - control by environment modification, 11281
 - test program, 9960
 - stress-corrosion cracking characterization procedures and interpretations to failure-safe use of titanium alloys, 11571
 - water-well corrosion, Chad Basin, Nigeria, preliminary study, 14344
 - wells, chemical properties of ground water and their corrosion and encrustation effects, 8352
- Corrugated boxes, *see* Boxes.
- Corsets, Puerto Rico, under Fair labor standards act, minimum wage rates, 11771
- Corsica, sailing directions, 8746
- Corsiglia, Victor R., large-scale tests of airplane model with double-delta wing including longitudinal and lateral characteristics and ground effects, 7276
- Cortez quadrangle, Nev., gold, silver, and other metals, anomalous concentrations of, 743
- Corticosteroids, adrenal, in submaxillary fluid, 11906
- Cortina, Aurelio J. Jiminez, *see* Jiminez Cortina, Aurelio J.
- Cortisol, parotid fluid cortisol and cortisone, 16573
- Cortisone, parotid fluid cortisol and cortisone, 16573
- Cosby, John T., Jr., relief, 6591
- Coshocton sampler, *see* Sampling devices.
- Cosines, *see* Trigonometry.
- Cosmetics:
 - commercial import detentions, monthly report, 2678
 - food, drug, and cosmetic act—
 - as amended—
 - laws, compilation, 5458
 - text, 6994
 - enforcement regulations, 1902
- Cosmetologists, *see* Beauty operators.
- Cosmic dust, Pioneer 8 cosmic dust experiment, 13084
- Cosmic rays:
 - instrument for studying at altitudes of 200–400 km, USSR study, 17132
 - patrol instrument for registration of primary cosmic radiation, USSR study, 853
 - physics of high energies and cosmic rays, 10160
 - search for gamma-rays from Crab nebula using digitized spark chamber, 8656
- Cosmology:
 - red-shift-magnitude relation and observational data, 14640
 - submillimeter waves in space, problems and programs on use of, 1040
- Cosmonautics, *see* Astronautics.
- Cosmonauts:
 - biotelemetry gives data on space fliers, USSR study, 5863
 - Soviet, training, space vehicle testing, 7140
- Cosmos satellites, *see* Satellites.
- Cossette, Ludger J., relief, 9403, 13885
- Cost, Noel D.:
 - forest statistics for Southern Coastal Plain of South Carolina, 1938
 - southern pulpwood production, 1937
- Cost:
 - and time associated with new multifamily housing construction in New York City, 14396
 - clean water, economic impact—
 - appendix, 9833
 - report, 9832
 - sewerage charges, 9834

Cost—Continued

- cost of clean air, report, print as Senate document report, 16859
- cotton gin operating costs in west Texas, 44
- crawler skidders, selecting by comparing relative operating costs, 17039
- farm cost situation, 5529
- farm costs and returns, 15619-621
- commercial, by type, size, and location, 16536
- marketing, distribution cost analysis, bibliography, 4924
- NASA contractors trim cost, 4690
- reduction—
- and management improvement, guide, 6181
- selected Government departments and agencies, GAO report, 17058
- Veterans Administration, 2537
- rising construction costs and anti-inflation policies, report on Western Europe, 14464
- see also subjects.

Cost accounting, see Accounts and accounting.

Cost and standard of living:

- area wages and living costs, 8561
- Canal Zone Government, former employees, cash relief payments to provide cost of living adjustments, amend Canal Zone code, report, 12188
- living conditions, New York City, facts, 14474
- living costs—
- abroad, State Department indexes, 5913
- and food prices, background material, 14471
- living standards in New York City, changing patterns, 12981, 16028
- three standards of living for urban family of four persons, 5895

Costa Rica:

- economic trends and their implications for United States, 8466
- political relations with other States, records of State Dept, pamphlet to accompany microcopy, 2276
- Puerto Limon, survey under Harbor survey assistance program, 13256
- Republic, background notes, 4952

Costagliola, Francesco:

- remarks—
- Mar. 4, 1969, 5189
- Mar. 21, 1969, 6480

Costello, Frank J., jr., retirement plans for self-employed owner managers, 13412

Cote, Joseph, or heirs, relief, 9393

Cottendorffia, see Bromeliaceae.

Cotton:

- broadwoven fabrics, average weight and width of fabrics, current industrial reports, 3841
- broadwoven goods, current industrial reports, 2733, 3842-43
- commercial cotton farms, costs and returns, Mississippi Delta, 15620
- cotton—
- manmade fiber staple, and linters, current industrial reports, 3844
- situation, 2716
- cotton and synthetic textiles, 1965, employee compensation and payroll hours, 12963
- cotton report and related data, 1930-67, statistics, supplement, 3672
- experimental export shipment of cotton in containers, report, 16054
- fiber and processing test results, 2710, 7581
- field-exposed, spinning performance and yarn quality as affected by lint color and trash in 1966-67 crop, 13591
- foreign agriculture circulars, 2902

Cotton—Continued

- futures—
- acts and other laws, compilation, 3939
- commitments of traders, 2679
- trading and open contracts, 2929
- imports of manufacturers, foreign trade reports, 2909
- insect parasites, rearing in laboratory, 13605
- insects, rearing in laboratory, 13604
- lygus bugs, how to control them, 11870
- man-made fiber staple, and linters, current industrial reports, 2732
- Mesilla Park fiber sorter, instrument for sorting short fibers and long fibers in cotton lint, 6
- mill margins report, 3123
- monthly cotton linters review, 3135
- 1968 upland cotton program, 6368
- mycotrophic movement as false wilt symptom, 14974
- plant residue, probabilities of obtaining uniform planting depths, in soils containing, 11790
- prices—
- spot quotations, 3455
- statistics, monthly, 2711
- processed by mills for specific end uses, nonlinear model for evaluation, 2673
- production—
- crops, 6307, 13760
- monthly release, 2715
- quality—
- crops, 4107, 14064
- report for ginnings, 3548
- supply, disappearance, carry-over 1968-69 crop, 14065
- seed, and cottonseed handling with air-jet conveyors, 4
- spider mites, control, 3645
- textile industry, earnings and supplementary benefits, 5909
- textiles, trade agreement with—
- Greece, 11715
- Japan, 1453
- Singapore, 7493
- United Arab Republic (Egypt), 6278
- upland—
- cost of producing in United States, supplement, 14123
- vote scheduled on transfer of 1970 allotments, 7608
- USSR production, report of U.S. technical study group, addendum, 6399
- varieties planted, 12327
- early producing section of Texas, 9499
- variety tests, regional, results, 5029
- weekly cotton market review, 3597
- Cotton gins and ginning:
- consolidated cotton report, 2711
- cotton gin plants, inertial separation chamber for controlling air pollutants, 11789
- cotton ginnings—
- by counties, 2712
- by States, 2713
- gin stand research at Stoneville, Miss., 1956-66, 15067
- operating costs in west Texas, 44, 6386
- quality report for ginnings, 3548
- Cotton mills, evaluation of cotton processed, for specific end uses, nonlinear model, 2673
- Cottonseed:
- and seed cotton handling with air jet conveyors, 4
- quality, crops, 1746, 15479
- surface area, method of determining, 7613
- Cottonseed oil, futures trading and open contracts, 2930
- Cottonwood Creek:
- flood plain information, 12455
- floods in Grand Prairie and Arlington, Tex., how to avoid damage, 12530
- Cottrell, Wm. B., nuclear safety, technical progress review, 3208

- Couch, Lana M., flow-field measurements downstream of two protuberances on flat plate submerged in turbulent boundary layer at Mach 2.49 and 4.44, 14608
 Could you use a multimillion dollar customer? 17436
 Coulee Dam National Recreation Area, water supplies, 9931
 Coulter, Bernard L., relief, 10707, 13979, 16721
 Coulter, Olivia W., aging, 2560
 Coulter transducers, *see* Transducers.
 Council of Economic Advisers:
 members, nominations of Paul W. McCracken, Hendrik S. Houthakker, and Herbert Stein, hearing, 4074
 report—
 departmental edition, 4858
 document edition, 3962
 Council on Environmental Quality, *see* Environmental Quality Council.
 Counseling:
 Army recruiting and career counseling journal, 3371
 children, Veterans Administration, opportunity for economies, GAO report, 718
 girls, their special needs, expanding opportunities, 14969
 HRD employability model, guidelines, 4196
 Counseling psychologists, *see* Psychologists.
 Counselors:
 educational personnel training, creative developments, 9649
 guidance—
 Air Force information material, 11916
 and Job Corps teacher, examination announcement, 5272, 12038
 guide to manpower information, annotated bibliography, 895
 high school manual, Armed services vocational aptitude battery, 14081
 school, rehabilitation, and vocational, employment outlook, 4493
 Counterfeits, *see* Money.
 Counter guerrilla operations, 11935
 Counterinsurgency, frustrated counter-revolution in Czechoslovakia, 2060
 Counters, coin handling, classification definitions, 2365
 Counties:
 and metropolitan areas, estimates of population July 1, 1966, summary report, current population reports, 12015
 county business patterns, CBP series, 16658-663
 estimates of population, July 1, 1966, current population reports, 5214
 governments, finances, census of governments, 9117
 health insurance for aged, amounts reimbursed, July 1966-Dec. 1967, 11665
 North Carolina, estimates of population, July 1, 1967 and 1968, 9159
 sources of milk for Federal order markets, 505
 States of United States, Federal general data standard, representations and codes, 6044
 Counting devices, medium-level whole-body counter, counting characteristics, 15076
 Countries, *see* Foreign countries.
 Countryman, Clive M., use of air tankers pays off, case study, 17033
 Countryman, Kenneth A.:
 oceanographic cruise summary—
 Baffin Bay, Davis Strait, Labrador Sea, 13260
 Denmark Strait, 13233
 Courts, James C., nomination, hearing, 5461
 County agricultural agents, in Vietnam, 7610
 Couplings:
 Bossler coupling, 4671
 coupling of fracture mechanics and transition temperature approaches to fracture safe-designs, 10270
 Couplings—Continued
 mechanisms with elastic couplings, dynamics and stability, 14650
 synthetic membranes, coupling phenomena, 7090
 velocity, role in solid-propellant combustion instability, 14639
 vibration-dissociation coupling in fluid flows, simplified molecular model for studying, 17254
 Courses of study, *see* Curriculum.
 Court leave, hearing, 10799
 Court of Claims:
 calendar, 2717
 cases decided, 523, 9509, 14073
 contract claims against nonappropriated fund activities of U.S., jurisdiction—
 hearing, 9475
 report, 10865
 judgments for compensation, implement, amend, U.S. code, report, 6750
 land title, bill S. 202, referring to chief commissioner of Court of Claims, report, 16872
 see also names of claimants.
 Court of Customs and Patent Appeals:
 customs bulletin, weekly, 2737
 custom cases adjudged, 4119
 patent cases adjudged, 4120
 Court of Military Appeals:
 court-martial reports, holdings and decisions, 9513
 digest, annotated and digested opinions, supplement, 538
 member, nomination of William H. Darden, hearings, 4071
 report, 5475
 Courtown Cays, environment and ecologic zonation, 17371
 Courts:
 court leave for employees of United States and District of Columbia, correct inequities, report, 13907
 District of Columbia, reorganize, report, 15384
 see also District courts—*also* names of courts.
 Courts martial and courts of inquiry:
 instruction guide, Air Force manual, change, 3683
 Judge Advocates General boards of review and Court of Military Appeals reports, holdings and decisions, 9513
 manuals, 8132, 15526
 military judges guide, Army pamphlet, 10546
 military justice handbook—
 guide for summary court-martial trial procedure, change, 9038
 trial guide for special court-martial, 10547
 Courts of United States:
 appropriations, 1970—
 hearings, 10767, 16878
 report, 12192
 Federal judicial system, study—
 authorization, report, 4060
 report on findings, 9407
 judicial reform act, measures to improve judicial administration, hearings, 488
 jurisdiction over contract claims against nonappropriated fund activities, hearings, 489
 narcotic addicts, dealing more effectively with individuals, public health laws, compilation, 493, 5458
 volunteer probation programs, utilizing volunteers, manual, 4931
 volunteer programs in courts, collected papers on productive programs, 17379
 see also District Courts.
 Covers, and doors, access, Federal item identification guide, 15503
 Cow Bayou, Brazos River basin, Tex., 1966, compilation of hydrologic data, 12762
 Cowboys, American (poster), 6331

- Cowen, Justin B., mineral industry of Spain, 2163
- Cowgill, George, proceedings of 1968 Denel Conference on Lipids on turnover of lipids and lipoproteins, 11540
- Cowling, mixed-compression 2 dimensional inlets with low-angle cowls for Mach number range 2.70 to 1.80, characteristic design study, 13111
- Cowlitz County, Wash.:
flood plain information, 12454
floods, how to avoid damage, 12495
- Cows, *see* Cowling.
- Cows:
farm building plans—
free-stall barns—
barns 44 and 48 feet wide, 8973
cows, 3659, 6388
62 cows, arrangement for dairy cows, arrangement for dairy system, 5056
cows, housing only, 5055
dairy, partially open free-stall housing system, 3658
free-stall system for dairy cows, 6390
loose-housing system (covered free stall) for 124 dairy cows, 6392
- milk—
forage fed, 1968-69 winter feeding season, 11734
on farms, June 1969, 14934
see also Dairy herd improvement associations.
- Cox, Lawrence M.:
addresses, etc.—
Sept. 19, 1969, 15841
Sept. 23, 1969, 15824
Oct. 13, 1969, 15842
nomination, hearing, 6779
- Cox, R. G., characteristic pressure distribution in outlet works inlets, 15666
- Coxe, Tench, letters as Commissioner of Revenue, 1794-96, on procurement of military, naval, and Indian supplies, pamphlet to accompany microcopy, 14657
- Coyne, George, statistics of region of Lacerta ORI, 11441
- CPEHS, *see* Consumer Protection and Environmental Health Service.
- CPSU, *see* Communist Party of Soviet Union.
- CR series, 7398
- Crab Creek, river mile index, 13310
- Crab meat:
Pacific, significance of *Clostridium botulinum*, type E, in application of radiation-pasteurization process, 7708, 7711
radiation-pasteurization process, annual report, 5173
- Crab nebula, search for gamma-rays using digitized spark chamber, 8656
- Crabill, R. E., jr., tracheotaxy as generic criterion in Himantariidae, with proposal of 2 new Bothriogastrine genera (*Chilopoda*: *Geophilomorpha*), 13424
- Crabs, *see* Blue crabs—King crabs.
- Cracking of metals, *see* Fracture of metals.
- Craft (nautical):
search and rescue operations for U.S. citizens and craft in foreign areas—
hearing, 7959
report, 9301
small, Federal item identification guides for supply cataloging, supplements, 2850
- Crafts, *see* Arts and crafts.
- Crafts, protective and custodial employees, *see* Government officials and employees.
- Craggs, Anthony:
transient response of coupled acousto-mechanical systems, 14588
transient vibration analysis of linear systems using transition matrices, 1035
- Cragun, John R., job inventory information, task reliabilities and scale interrelationships, 3690
- Craig, Roger A., absolute radiometers for use in ballistic range and shock-tube experiments, 16157
- Craighead County, Ark., community profile, 15552
- Cranberries, indicated production, 14932
- Crandell, Dwight R., geology story of Mount Rainier, 13334
- Craue, Harold L., effects of reduced airspeed for landing approach on flying qualities of large jet transport equipped with powered lift, 1059
- Cranes (birds):
hunting, possession, transportation, and or importation 1969-70, in United States, etc., Federal regulations governing, 14884
Alaska, 13461
whooping cranes, general information, 6255
- Cranes, derricks, etc.:
traversing hoists, classification definitions, 2375
trestle cranes, diagrams and specifications, USSR study, 15964
- Cranston, George E., general aviation pilot reactions to and opinions on grooved runways, 14591
- Crappie, white crappie in Lewis and Clark Lake, biology, 7475
- Crash rescue, *see* Aircraft accidents
- Crashes, *see* Aircraft accidents Motor vehicle accidents.
- Crater Lake, hydrology, 1975
- Craters:
Cabirol nuclear crater site, preshot geophysical studies, 16626
close-in air blast from—
Cabirol event, 1601
cratering nuclear detonation in rhyolite, 3804
close-in ground motion and earth stress, 3806
craters in aluminum, projectile shape effects on hypervelocity impact, 2252
geologic and engineering properties investigations—
Project Cabirol, 1602
Project Palanquin, 1600
Project Pre-Gondola I, 11960
geophysical properties of Palanquin crater site, 3805
intermediate range ground motions for Pre-Gondola II and associated events, 1603
long-range airblast from Palanquin test, 7696
metal alloys under hyper-velocity impact including effects of projectile density and target density, characteristics, 8627
NCG technical report, 7689
preshot geologic and engineering properties, Project Buggy, 13704
surface motion crater studies, Project Pre-Gondola, 7697
surface motion measurements—
Project Pre-Schooner, 5170
Project Pre-Schooner Project II, 3803
- Crates, Federal item identification guide for supply, cataloging, 6832, 15498
- Craven, Harold L., transportation proceedings, 3526
- Crawfish, biology of crayfish, and its use for control of aquatic weeds in trout lakes, 6258, 13467
- Crawford, Hewlette S., Ozark range and wildlife plants, 5027
- Crawford, R. F., investigation of collapsible lattice column, 10071
- Crawford County, Ark., community profile, 15553
- Crawler tractors, *see* Tractors.
- Crayfish, *see* Crawfish.
- Cream, fluid milk and cream report, 2896

- Creast, Vincent J., selected bibliography on climate of Central American countries, 16568
- Creativity:
creative developments in training of educational personnel, 9649
elementary and secondary education act, PACE, projects to advance creativity in education, supplementary services and centers, etc., 5550
- Credit:
brokers—
and dealers, regulations, 12644
dealers, and members of national securities exchanges, regulations, 12645
by banks for purchasing or carrying margin stocks, regulations, 12646-647, 15731
consumer credit insurance act of 1969, hearings, 15418
consumer credit—
insurance transactions, protect from abuses relative to excessive charges for life, health, and accident insurance, hearings, 15418
statistics, revision, 4281
consumers, protection against arbitrary, erroneous, and malicious information, hearings, 10888
export financing programs, 4423
fair credit reporting act, hearings, 10888
Federal credit programs in the 1970's (remarks), 17424
Federal reserve discount facility, proposed changes, public reaction (remarks), 8245
FHA emergency credit revolving fund, temporary funding, report, 9412
foreign credits of United States Government, 1478, 7551, 14949, 16512
housing, code of Federal regulations, 6956
letter of credit procedures (recipient organizations), HUD handbook, 15828
manual for Federal credit unions, 16987
participation certificates issued by Federal National Mortgage Association, opinion of Attorney General, 5879
policy questions, Federal Home Loan Bank System (address), 8298
public convenience and expansion of bank credit cards (address), 656
reporting foreign grants, loans, and credits, regulations, 2523
sales finance companies, monthly report, 3408
securities, by persons other than banks, brokers, or dealers, regulations, 12641, 15729
truth in lending—
act, amend, hearings, 10888
consumer credit cost disclosure—
amendment to Federal Reserve regulation Z, 14233
what you ought to know about Federal Reserve regulation Z, 6978, 14228
regulations, hearings, 6707
remarks, 657
see also Banks and banking—Installment credit—Production credit associations
Credit bureaus, and reporting, safeguards to protect citizens from improper disclosure of personal data, establish hearings, 12307
Credit insurance, industry, hearings, 482-483
Credit selling, *see* Sales
Credit unions:
State-chartered, 1863, 16988
statistics (periodical), 12607
see also Federal credit unions
- Creep of materials:
calculation of elevated-temperature cyclic life considering low-cycle fatigue and creep, 13106
rock-bolt anchor creep, load loss, 4641
- Creep of materials—Continued
thermal fatigue based on accumulated creep damage, calculation, 17237
- Creep of metals:
creep-rupture—
data for welded N-155 tubes, 8645
properties of nickel-base superalloy sheet, sensitivity of, etc., 4679
elastic plastic strain and creep effects on reactivity changes of fast reactor core, 4738
high temperature creep-rate data, statistical analysis, for alloys of tantalum, molybdenum, and columbium, 16175
strength and tensile properties of 3 aluminum alloys exposed, etc., 4736
thermal fatigue based on accumulated creep damage, calculation, 17237
- Crescent City, Calif.:
harbor design for optimum wave conditions, 606
tsunami model, theories in design of proposed harbor, 14155
- Crespo, Alfred N., development of 3-dimensional pressure-distribution functions for lifting surfaces with trailing-edge controls based on integral equation for subsonic flow, 17220
- Cretaceous period:
Cretaceous system, east-central Puerto Rico, changes in stratigraphic nomenclature, 7046
Cretaceous-Tertiary boundary in New Jersey, Delaware, and eastern Maryland, 5704
late Cretaceous ammonites Scaphites leel Reeside and Scaphites hippocrepis (DeKay) in Western interior of United States, 5723
upper, rocks, Berkeley and San Leandro Hills, Calif., 5699
- Crews, John H., Jr., elastoplastic stress-strain behavior at notch roots in sheet specimens under constant amplitude loading, 11463
- Crews, *see* Flight crews—Spaceship crews.
- Crime and criminals:
appropriation request for Justice Department to combat lawlessness, 7850
census offenses, repeal jail sentences for refusal to answer question, report, 446
crime and delinquency abstracts (periodical), 2718
crime control, united strategy, 4459, 10008
crime in District of Columbia, investigation, authorization, report, 4052
crime in National Capital, hearings, 6781, 9454, 14022-23
crime in United States, all aspects, create select committee to conduct investigation and study, reports, 7894, 9291
criminal justice—
act in Federal district courts, study, 10908
expenditure and employment for selected large governmental units, 1966-67, 6507, 9165
national program of research, development, test, and evaluation, 875
qualified manpower crisis, analytic assessment with guidelines for new policy, 4928, 13432
District of Columbia—
crime and criminal procedure bill, suggestions of President's Commission on Crime, implementation, 6780
hotels, motels, etc., offenses against, revise laws, report, 16801
Federal offenders in District Courts, 1495
firearms and violence in American life, 13321
International Criminal Police Organization (remarks), 4994
military policy, crime prevention activities, AMC pamphlet, 1565

Crime and criminals—Continued
 offenses and certain other acts committed
 on board aircraft, convention—
 message from the President, 1723
 report, 7996, 7997
 omnibus crime control and safe streets
 act of 1968, financial guide for admin-
 istration of planning and action grants,
 15992
 organized crime—
 activities and related areas, measures
 against, hearings, 14050
 control act of 1969, hearings, 14050
 fight against, message from the Presi-
 dent, 7856
 riots, civil and criminal disorders, inves-
 tigation, hearings, 425, 474-475, 9466,
 12300, 14036, 15459
 print additional copies, reports, 440,
 12276-277, 15363-364, 15386-388
 riots, looting, and burning—
 administration of justice in D.C. during
 and after civil disorders of Apr. 1968
 and in riot-related prosecutions, 13322
 subversive influences, hearings, 426,
 4005, 7977, 8073
 print additional copies, reports,
 10753, 12278
 small business—
 crime against, report., 6735
 print as Senate document, report, 8026
 impact of crime, hearings, 14062
 television programming, FCC policy mat-
 ters review, hearings, 9453
 uniform crime reports, 12603
 uniform reporting, quarterly release, 3544
 Crime and Regional Aspects of Crime Prob-
 lem, President's Commission on, *see* Presi-
 dent's Commission on Crime and Regional
 Aspects of Crime Problem.
 Criml, Peter, method for analyzing aero-
 elastic stability of helicopter rotor in
 forward flight, 14568
 Criminal jurisdiction:
 criminal justice expenditure and employ-
 ment for large governmental units,
 1966-67, 6507
 errata, 9165
 NATO status of forces agreement, opera-
 tions, report, 451
 status of forces agreements, compilation,
 9344
 Criminal justice act in Federal district
 courts, 10908
 Criminal law:
 investigation and study, authorization,
 report, 4059
 omnibus crime control and safe streets act
 of 1968, financial guide for adminis-
 tration of planning and action grants,
 15992
 organized crime activities and related
 areas, hearings, 14050
 Criminal Laws, National Commission on
 Reform, *see* National Commission on Re-
 form of Federal Criminal Laws.
 Criminal procedure:
 District of Columbia crime and criminal
 procedure bill, suggestions of President's
 Commission on Crime, implementation,
 6780
 investigation, and study, authorization,
 report, 4059
 organized crime activities and related
 areas, measures against, hearings, 14050
see also Searches and seizure.
 Cripple Creek, gold and other metals in dis-
 trict, distribution, 14350
 Cripples:
 crippled children and adults, 6 cent com-
 memorative postage stamp (poster),
 17320
 crippled children's program, 1966 statisti-
 cal highlights, 1632
 Crisis and opportunity (remarks), 16049

Crisis fleeing, original reports on military
 medicine in India and Burma in Second
 World War, 15061
 Criteria and guidelines for evaluation of in-
 service training, 1385
 Criteria for—
 choosing research scientists, USSR study,
 835
 technician education, suggested guide,
 1804
 use in planning new facilities, 7398
 Critical-speed analysis of rigid rotors on
 flexible foundations, 1084
 Crittenden County, Ark., community profile,
 15554
 Croaking gouramis, sounds and poses in
 aggressive-defensive behavior of *Tri-
 chopsis vittatus* (Cuvier and Valen-
 ciennes), USSR study, 8523
 Croatian language, *see* Serbo-Croatian
 language.
 Croker, Thomas C., jr.:
 longleaf pine—
 annotated bibliography, 1331
 regeneration in mountain and Piedmont
 provinces of Alabama, 1930
 Crom, Richard J., marketing aids for cattle
 feeder, 1508
 Cronmeyer, Cora, farm labor develop-
 ments, 2821
 Crooked River National Grassland, general
 information, 14275
 Crooker, John H., jr.:
 addresses—
 Mar. 27, 1969, 6512
 June 1, 1969, 9174
 June 19, 1969, 10616
 July 18, 1969, 12924
 Aug. 11, 1969, 12025
 Crooker, T. W.:
 corrosion-fatigue crack propagation
 studies of some new high-strength
 structural steels, 13291
 fatigue crack—
 growth in three 180-skl yield strength
 steels in air and in salt-water en-
 vironments, 2355
 propagation is high-strength steel under
 constant cyclic load with variable
 mean loads, 6151
 subcritical growth in 9Ni-4Co-0.25S steel,
 fatigue and fractographic investigation
 and its relationship to plane strain
 fracture toughness, 13277
 Crooks, Donald M., poison ivy, poison oak
 and poison sumac, identification, pre-
 cautions and eradication, 34
 Crop insurance, *see* Agricultural insurance.
 Croplands, *see* Land.
 Crops:
 certifying your program acres, ACSC
 administration, 6395
 crop drying in U.S., 1966, quantity,
 equipment, fuel, 10499
 crop production (periodical), 2719
 extent of farm pesticide use on crops, 1799
 farmers' pesticide expenditures, 566
 Federal reclamation projects, 1968, report,
 17362
 statistical appendix, 17363
 field and seed, production, farm use, etc.,
 by states, 8904
 insecticides, guide, addendum, 10477,
 11862
 new varieties, description, 1864
 planting prospective, 7527
 seed crops—
 acreage, yield, production, etc., annual
 summary, 8908
 field seed stocks report, 3420
 forecast, 3421
 values, season average prices, value of
 production, 7528
 weather and crop bulletin (periodical),
 3600
see also names of crops.

- Crosby, R. L., dispersion-strengthening in copper-alumina and copper-yttria alloys, 11382
- Cross, Ezra L., relief, 9259
- Cross, William B., nitinol characterization study, 16140
- Cross County, Ark., community profile, 15555
- Cross Creeks National Wildlife Refuge, general information, 1423
- Cross-references within Internal revenue code of 1954, 431, 16829
- Cross sections:
- neutron, technology, conference proceedings, errata, 1178
 - photon, attenuation coefficients, energy absorption coefficients from 10 keV to 100 GeV, 14667
 - scattering of 42-MeV (6.7-pJ) alpha particles from even isotopes of cadmium, 2248
 - thermal neutron, empirical approach, 2359
- see also Neutron capture cross sections.
- Crossett Experimental Forest, 29 years of selection timber management, 11188
- Crossthaite, E. G., water resources of Salmon Falls Creek basin, Idaho-Nev., 5728
- Crouch, Glenn L.:
- animal damage to conifers on national forests in Pacific Northwest region, 11192
 - effects of protection from deer on survival and growth of Douglas-fir seedlings, 7010
 - spring-season deer browsing off Douglas-fir on Capital Forest in western Washington, 4315
 - surveillance report, 1965 Burns project, Douglas-fir tussock moth control, 14293
- Crouse, James E., computer program for composing compressor blading from simulated circular-arc elements on conical surfaces, 16183
- Crow Indian Reservation:
- cattle ranching operations, 12820
 - soil and range resources inventory—Garvin Basin, 12822
 - Pryor Mountain area, 12821
- Crowds on ice, 3748
- Crowley County, Colo., soil survey report, 6241
- CRREL, see Cold Regions Research and Engineering Laboratory.
- CRS, see Community Relations Service.
- Crude oil, see Petroleum.
- Crude petroleum, see Petroleum.
- Crudes, see Tar.
- Cruises:
- ocean vessels, operating differential subsidy, remove certain limitations, report, 15292
 - oceanographic cruise summary—reconnaissance survey of Sea of Japan, 10218
 - UNITAS IX cruise around South America, 12355
 - USNS Lynch (T-AGOR 7) seismic survey of Wilmington Canyon, 12258
 - operators, require to file evidence of financial security, etc. (address), 1870
 - USCGC Northwind oceanographic cruise, Northern Bering Sea, Bering Strait, Chukchi Sea, report, 12063
 - USCGC Rockaway-Smithsonian Institution cruise, photographic investigation of sediment texture, etc., in Wilmington submarine canyon, 9198
- Crump, Lullie H.:
- supply and demand for energy in United States by States and regions, 1960 and 1965—
 - dry natural gas, 5933
 - petroleum and natural gas liquids, 10051
- Crushed stone, see Stone.
- Crustaceans:
- freshwater and terrestrial decapod crustaceans of West Indies, 8709
 - recent Ostracodes of family Pontocyprididae, chiefly from Indian Ocean, 16404
- Crustaceans—Continued
- revision of recent Bairdiidae (Ostracoda), 13182
 - Spinacopia, new genus of Myodocopid Ostracod (Sarsellidae), morphology, ontogeny, and intraspecific variation, 13421
 - stomatopod crustacea from—
 - southern Africa, notes, 11662
 - West Pakistan, 1209
 - toxicity of pesticides to crustacean Gammarus lacustris, 10400
 - see also Amphipods.
- Crutcher, H. L., U.S. Navy marine climatic atlas of world, v. 8, world, 11559
- Cyrogenic Data Center, Current Awareness Service, publications, etc., list, 2721
- Cyrogenics:
- cyrogenic tanks in space, shadow shields for thermal protection, experimental studies, 1106
 - fracture properties of thin AISI 301-60-percent cold-reduced sheet at various angles to rolling direction, 16168
 - liquid, incipient and developed cavitation, 6050
 - nuclear radiation at cryogenic temperatures on tensile properties of titanium and titanium-base alloys, effect, 16186
 - publications and reports of cryogenic interest, list, 2721
 - slush hydrogen fluid characterization and instrumentation, 6051
 - water-to-cryogenic-hydrogen heat exchanger, heat transfer characteristics, 16178
- Cryolite, minerals yearbook chapter, 17171
- Cryotherapy, see Cold.
- Crystal Hills Recreation Area, Ariz., general information, 12954
- Crystal lattices:
- lattice model for composite materials, 7242
 - point defect calculations in tungsten, 1131
- Crystalline rocks, see Rocks.
- Crystallography:
- crystallographic data on selected artificial graphites with comments on role of degree of crystal development in oxidation, 1107
 - crystallographic properties of spinel lithium ferrite, effects of lithium and oxygen losses, 7307
 - dislocation structures in single crystal tungsten and tungsten alloys, 17240
 - freeze desalination crystallizers, development of methods for determining ice particle size distribution, 7087
- Crystals:
- angular positions of X-ray emission lines of elements for comimon analyzing crystals, 4621
 - crystal development in oxidation, role of degree, crystallographic data on selected artificial graphites, 1107
 - growth of 2H silicon carbide crystals, 13105
 - nonlinear flux flow in single crystal niobium, 10126
 - 110 planes, characteristics of thermionic converter with fluorine vapor deposited tungsten emitter etched to preferentially expose, 14571
 - silver single, dislocation pipe diffusion, 14745
 - see also Crystallography.
- Csik, George A., measurements of some properties of discharge from hollow cathode, 5991
- CSRS series, 6818
- CSSR, see Czechoslovakia.
- Ctenoid scales, see Scales (fishes).
- Cuba:
- agriculture survey, 10970
 - aircraft piracy, preliminary report, 5360

- Cuba—Continued
capsule facts for Armed Forces, 122
claims of U.S. nationals against Government, extension of time, provide—
hearing, 10782
report, 15272
Republic, background notes, 4953
Cubans, refugees, assistance, appropriations, 1970, hearings, 15299
Cuccichiaro, Orlando, kryptonate hydrogen detection system, final report, 5164
Cuffe, Stanley T., emissions from coal-fired powerplants, comprehensive summary, 17336
Culicidae, *see* Mosquitoes.
Cullman County, Ala., forest inventory statistics, 11742
Cultural and Technical Interchange Center Between East and West, activities, GAO report, 9872
Culture:
China and its cultural revolution, Soviet analysis, 12898
clones of slash pine under intensive culture, growth and flowering, early results, 11187
cultural development special fund, agreement with Philippines, 1448
cultural relations, agreement with—
Rumania, 6296, 17409
Union of Soviet Socialist Republics, 2497
the culturally different, education, multicultural approach handbook for educators, 16956
demographic and socio-cultural characteristics—
off-reservation service Indian population, Sells Service Unit, Ariz., 13337
Papago Indian reservations, Ariz., 10298
influences on children, research programs, studies in progress, 6511, 15124
international educational and cultural exchange (periodical), 2998
international exchange of persons program, 1968, report, 11707
international information and cultural series, 11707
joint committee on cultural and educational cooperation, agreement with Japan, 4977
model as system of games, USSR study, 15987
Moscow cultural projects jeopardized, 2089
Culture media:
large-scale culture of chlorella, glass tube apparatus for, USSR study, 833
micro lagoon technique for culture and observation of isolated mammalian cells, 1122
Oocystis polymorpha, thermotolerant green alga suitable for mass culture characteristics, 10527
pathogenic properties of Staphylococcus aureus as influenced by culture conditions, 9010
process for imprinting micro lagoon fields in plastic surfaces for use in cell and tissue culture, 11470
see also Agar—Bacteria and bacteriology.
Culver, John C., Czechoslovakia, special study mission, report, 6710
Culvert pipe, *see* Pipe and pipe fittings.
Culverts:
engineering and design manual, 5570
pipe-arch, hydraulic analysis, electronic computer program, 4905, 16381
Cumberland River, flood plain information, 12456
Cunanan, Walter S.:
cavitation damage and effect of fluid temperature on performance of axial-flow pump in liquid sodium, 16202
Cunanan, Walter S. Continued
effect of fluid temperature on cavitation performance of high hub-tip ratio axial flow pump in water to 250°F (394K), 11193
Cunnington, G. R., emissivity coatings for low-temperature space radiators, 16136
Cunningham, Robert E.:
experiments on rotating externally pressurized air journal bearings—
attitude angle and air flow, 11452
load capacity and stiffness, 10123
experiments on steady-state characteristics of herringbone-grooved air-lubricated journal bearings, 13139
Cuprous chloride, in hydrochloric acid, analysis and solubility, 1537
Cuprous sulfide, *see* Sulfides.
Currency, *see* Money.
Current business reports (series), 2723-29
Current discharge at selected stations in Pacific Northwest, 3470
Current economic analysis:
series, 2979, 2898
S series, 3435
Current export bulletin, 2730
Current fishery statistics, C.F.S. series, 318-319, 1665, 2585, 2640, 2892-93, 2895, 2926, 2939, 3092, 3095, 3107-8, 3117, 3125, 3187, 3193, 3205, 3394, 3437, 3445, 3494, 3575, 3910-16, 5295-96, 7808-10, 9217-22, 10662-663, 12811-816, 15182-183, 16711
Current housing reports, 2731
Current industrial reports, 224-238, 1620, 2732-33, 3835-59, 5210-11, 6195-99, 7738-39, 9124-52, 11999-12008, 13761-762
Current meters:
Japanese current meter arrays, analysis, 13222
vertical-axis type, calibration and maintenance, 753
Current population reports, 2735
Currents, *see* Electric currents—Lake currents—Ocean currents.
Curriculum:
architectural and building construction technology, 2-year post high school curriculum, 16951
Coast Guard Academy, catalog of courses, 12064
demonstration project in police-teacher curriculum development to improve police-juvenile relations, Cincinnati police-juvenile attitude project, 872
diagnostically based, Bloomington, Ind., preschool program in compensatory education, 6890
diesel servicing, suggested 2-year post high school curriculum, 16954
effect of differences in curricula and experiences on social work student attitudes and knowledge about mental retardation, 6060
electrical appliance serviceman, suggested guide for training course, 14133
Environmental Control Administration, training institute, bulletin of courses, 14810
foreign, consultant program for schools, colleges, and State departments of education, 14135
forest technology, suggested 2-year post high school curriculum, 4171
forestry, suggestions for integrating in modern curriculum, 14294
grain, feed, seed, and farm supply technology, 2-year post high school program, 5543
intermediate grades, space oriented concepts for science and mathematics, 11401
metallurgical technology, 2-year post high school program, 4178
political economy course, military-economic problems in USSR, 4437

- Curriculum Continued
recreation program leadership, suggested
2-year post high school curriculum,
14141
university curricula in marine sciences
and related fields, 16237
water and wastewater technology, 2-year
post high school curriculum, 8176
see also Education.
- Curtis, Lindsay R.:
gline snidling, big trouble in a tube, 7375
let's talk about goofballs and pep pills,
7377
- Curtiss, Howard C., jr., investigation of dynamic stability characteristics of quad configuration, ducted-propeller V/STOL model, 13669
- Curvature (mathematics):
meridional method for computation of vibration modes and frequencies of orthotropic thin shells of revolution, 4710
short data arcs, effect of gravitational-model selection on accuracy of lunar orbit determination, 7278
transmission loss atlas for select aeronautical service bands from 0.125 to 15.5 GHz, 12567
unsteady motion of sphere along circular path in viscous fluid, 9032
- Curves, *see* Curvature (mathematics).
- Curves (drafting):
method of smooth curve fitting, 6916
- Curwen, Peter W., feasibility of gas bearings for small high-performance aircraft gas turbines, 6458
- Cushing, Leonard F., papers in Library of Congress, register, 16035
- Cushman, Robert E., jr., nomination, hearings, 9447
- Cusick, James P., resonant mode analysis of the Fitzgerald apparatus, 7277
- Custer Battlefield National Monument, general information, 1217
- Custer County, Idaho, geology of Alder Creek mining district, 729
- Custis-Lee Mansion, Arlington, Va., general information, 16271
- Custodians:
building, suggested guide for training course, 15628
military custodial services manual, Army technical manual, 16598
- Customs, *see* Tariff.
- Customs Bureau:
career opportunities, can you find it? 14074
serves the whole Government (remarks), 10440
- Customs Cooperation Council, convention establishing, report, 437
- Customs Court:
customs bulletin, weekly, 2737
cases adjudged, Customs Court reports, 8111
- Customs Union Study Group, European, *see* European Customs Union Study Group.
- Cusumano, Vita, relief, 9262, 13840, 13978
- Cut stone, *see* Stone.
- Cutler, Martin B., static and fatigue test properties for woven and nonwoven S glass fibers, 11953
- Cutlery, trade and tariff information, summaries, 1464
- Cutouts, *see* Electric cutouts.
- Cutting machinery, selective cutting (e.g. punching), classification definitions, 1291
- Cutting of metals, *see* Metal cutting.
- Cutting oils, employing radiation, microbial inhibitors in, cost analysis, 7691
- Cutting tools, selective cutting (e.g. punching), classification definitions, 1291
- Cuttings, *see* Reproduction.
- Cuyahoga County, Ohio:
Big Creek and Tinkers Creek, flood plain information, 9672
- Cuyahoga County, Ohio—Continued
Chagrin River—
flood damages need not increase, 12529
flood plain information, 9669
Rocky River—
flood plain information, 9686
floods, keep damages low by building high, 12496
- Cuyahoga River:
floods in Cuyahoga County, Ohio, keep damages low by building high, 12496
flood plain information, 9672, 9686
- Cuyo region, Argentina, natural vegetation of uraniferous deposits, possible influence of radiation, 5135
- Cuzon de Rest, R. P., films on oceanography, 8744
- Cybernetics:
and control theory, USSR studies, 5810
and regulation theory, USSR studies, 2062, 2070, 5831, 5866, 5814, 11317, 12957, 17131
applications in Latvia, USSR study, 5854
biocybernetic modeling, USSR articles, 5861
bright future predicted, USSR study, 5864
Communist Chinese abstracts, 2682
complex systems modeling, USSR book, 5857
cybernetic aspects of psychology of a set, USSR study, 842
cybernetics methods in chemistry and chemical technology, 15936
cybernetics regulation theory and mathematics, 15985
East European abstracts, 2778
economic cybernetics, its problems and future USSR study, 12920
intelligence through the eyes of a cybernetician, USSR study, 5821
new techniques in scientific information systems, USSR study, 5516
1000 GEV cybernetic proton accelerator, 1596
practical, articles, USSR study, 17135
used in image conversion and dance, USSR studies, 5858
- USSR—
abstracts, 3564
developments, 7158
research, 8495
translations, 15913
- Cycle to nowhere, 270
- Cyclic intermediates, *see* Organic compounds.
- Cycling:
calculation of elevated-temperature cyclic life considering low-cycle fatigue and creep, 13106
gas cycling effects of pressure, temperature and type of oil on vaporization of oil, 11392
- Cyclopoidae, *see* Copepods.
- Cyclorhagida, *see* Kinorhyncha.
- Cyclotenuhididae, *see* Cephalopods.
- Cyclotrons:
cyclotron report (series), 13274, 13278
m electron-cyclotron resonance in magnetic trap with plugs, plasma-electron confinement region, 5139
NRL cyclotron, demineralized water system, 13274
resonance oscillators, design considerations, 11463
waves in confined plasma, anomalous absorption, 16617
- Cylinders:
aerodynamic forces on stationary and oscillating circular cylinder at high Reynolds number, 4756
annular, natural frequency of liquids under low gravitational conditions, 14648
boron-epoxy and glass-epoxy filament-wound cylinders mechanical behavior, under various loads, 7256

Cylinders—Continued

- circumferential waves on aluminum cylinders in water by means of pulses, experimental examination, 13281
- diffraction of cylindrical hydroacoustical wave at junction of 2 semi-infinite plates, USSR study, 15952
- effect of finite thickness elastic solid tubes enclosing liquid cylinder of interest, 10265
- fineness-ratio 2.9 cylinder with nearly spherical ends at Mach number and angles of attack, 11466
- forward-facing nozzles exhausting near large cylindrical body at free-stream Mach numbers of 3.0 and 6.0, exploratory investigation of flow field resulting, 7252
- influence of electric field on motion of particles in helical fields, 16608
- lateral sloshing under low-gravity conditions, 6010
- roughness drag due to two-dimensional fabrication type surface roughness on ogive cylinder from force tests at transonic speeds, 4732
- stagnation line, supersonic viscous gas flow, USSR study, 2085
- stiffened cylinders, structural synthesis of, 2196
- thermal neutron flux perturbation effects in, predictive equations, 2219
- viscous compressible fluid flow around oscillating rigid cylinder, numerical calculation, 17210
- viscous flow in short cylindrical vortex chamber with finite swirlratio, 7293
- Cyprus:**
 - background notes, 7478
 - economic trends and their implications for United States, 8475
 - education, financing of exchange programs, agreement, 2503
 - mineral industry, minerals yearbook chapter, 13014
 - plant quarantine import requirements, 14976
- Cystinosis, nursing care of patients with cystinosis, nursing clinical conference, 13174**
- Cysts, periapical, mandibular incisors with large area of bone involvement, conservative management, case report, 16062**
- Czarnecki, K. R., roughness drag due to two-dimensional fabrication-type surface roughness on ogive cylinder from force tests at transonic speeds, 4732**
- Czechoslovakia:**
 - air transport services, agreement, 8888
 - Ambassador, nomination of Malcolm Toon, hearing, 9460
 - background notes, 6261
 - Brezhnev theory of limited sovereignty, 9463
 - confrontation and crisis, report, 470
 - frustrated counter-revolution activities, USSR study, 2060
 - intellectual ferment and dissent, aspects, 8078
 - legal regulations published, 1968, subject index, 15900
 - mineral industry, minerals yearbook chapter, 16082
 - mortality trends, 17358
 - situation, and U.S. Forces in Europe—postscript, 8066
 - report, 470
 - special study mission, report, 6710

D

- D.A.R., see National Society of Daughters of American Revolution.**
- D.C., see District of Columbia.**
- D.H.I.A., see Dairy herd improvement associations.**
- D.S.A., see Defense Supply Agency.**

Dane, J. Dewey:

- remarks—
 - Feb. 17, 1969, 5615
 - Sept. 8, 1969, 15727
- Dalhousy:**
 - background notes, 4954
 - economic trends and their implications for United States, 2024, 17112
 - Nigeria boundary, study, 17107
 - Daily river stages, 17781, 16526
 - Dairy cattle, see Calves—Cattle—Cows.
 - Dairy herd improvement associations:
 - DHIA cow performance index list, registered progeny of DHIA sires, 5022, 13539
 - national cooperative program, 2715
 - sire summary list, Ayreshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll sires, 13537
- Dairy industry, see Dairying.**
- Dairy products:**
 - fresh, procurement quality assurance handbook, supplement, 16935
 - manufactured products, 1968 production 13496
 - Tariff Commission report, 4981
- Dairying:**
 - dairy-herd-improvement letter, national cooperative improvement program, 2741
 - dairy inspections and grading services, 11872
 - dairy market statistics, 1968, annual summary, 7616
 - dairy marketing economics, research publications, bibliography, 8157
 - dairy price support 1949-68, and related programs, 10968
 - dairy situation (periodical), 2746
 - dairymen's class 1 base plan—hearings, 388, 9325
 - report, 374
 - foreign agriculture circulars, 2902
 - publications, price list, 8788
 - sanitary regulation, once? twice? thrice? 9646
 - see also Barns.
- Dalhous, Theodore, air traffic patterns for IFR and VFR aviation, 15679**
- Dales, Sophie R., operations of Federal unemployment account, Reed act loan fund, Dec. 1951-Dec. 1968, 19371**
- Daley, John C.:**
 - NRL terrain clutter study, 7381
 - upwind-downwind-crosswind sea-clutter measurements, 14718
- De ll, William H., zoologist taxa, list, 1203**
- Dallas, Tex.:**
 - accounts and deposits in all commercial banks in district, summary, 9762
 - area wage survey, 7181
 - floods, northern part, Apr. 28, 1966, 15818
 - metropolitan intrastate air quality control region report for consultation, 17356
- Dallas County, Ark.:**
 - community profile, 15556
 - water resources, 12798
- Dallas County, Tex.:**
 - flood plain information, 12161, 12479
 - floods, how to avoid damages, 12540
 - Hinton Branch and Cooks Branch floods, how to avoid damage, 12532
 - The Dalles Dam, fish passage report, 14148
- Dalrymple, Dana G., potato industry in East Pakistan, improving seed potato multiplication and storage, 12842**
- Dalton, Charles C., determination of meteoroid environments from photographic meteor data, 16205**
- Dalton, Kenneth V., retail prices of food 1964-68, indexes and average prices, 12974**
- Damage control:**
 - animal, general information, 11248
 - books for submarines, preparation and revision of, military standards, 12366
- Damages, see Claims.**

- Damelln, Jack, development of VHF propagation curves for Maritime Mobile Radio Service, 112604
- D'Amico, Kathleen J., statistical summary, minerals yearbook chapter, 985
- Dampers, flightworthy fluidic yaw damper, fabrication and functional test, 1587
- Damping:
- effects of structural damping on flutter of stressed panels, 4720
 - two alternate damping systems for GEOS gravity gradient stabilized satellite, analysis, 5980
 - viscoelastic shear-damped structural composites, loss factor and resonant frequency, 5976
 - viscous and friction, stabilizing effect on vibration of shaft face seals, 8637
- Damping of vibration, *see* Vibration.
- Dams:
- arch, structural model tests, Glen Canyon and Morrow Point Dams, 11652
 - concrete, Puerto Rico, condition, 8828
 - design, for mill tailings, 10950
 - fish-passage research, review of progress, 1666
 - sealing dam surfaces, isothermal compressible flow with relative rotation, analysis, 14614
 - stage-discharge characteristics of weir in sand-channel stream, 12799
 - storage and reservoirs on Bureau of Reclamation projects, statistical compilation, 14842
 - TVA, visitors are welcome, 2517
 - see also* names of dams or bodies of water.
- Da Nang Bay, dye dispersal study, oceanographic cruise summary, 13229
- Dance, Ray E., soil survey, East Baton Rouge Parish, La., 6242
- Dance, William E.:
- investigation of—
 - bremsstrahlung production in spacecraft production, 13042
 - electron interaction in matter, 1017
- Dancing, *see* Choreography.
- Dancis, Joseph, idiopathic respiratory distress syndrome, etc., 17277
- Dangerous articles, *see* Hazardous substances.
- Danielson, V. A., mineral industry of North Carolina, 962
- Danilowicz, Ronald L., point defect calculation in tungsten, 1131
- Dannels, Robert A., ETOM-1, Fortran IV program to process data from ENDF/B file to MUFT format, 3815
- Dannenberg, Robert E., exploding wire initiation and electrical operation of 40-kV system for arc-heated drivers up to 10 feet long, 8623
- DAK, *see* National Society of Daughters of American Revolution.
- Dardanelle, Ark.:
- flood plain information, 9663
 - floods, how to avoid damage, 12513
- Dardanelle Lock, Arkansas River, filling and emptying system, hydraulic model investigation, 1977
- Darden, Pierre S. duPont, relief of estate, 6598
- Darden, William H., nomination, hearings, 4071
- Darney, Arsen, role of packaging in solid waste management, 1966 to 1976, 8814
- Darrington, Clara F., investigation of methods for removing stains from mortar and concrete, 1824
- DASIAC, *see* Defense Atomic Support Agency Information and Analysis Center.
- Dassow, John A., guide to Bureau of Commercial Fisheries Technological Laboratory, Seattle, Wash., 12072
- Data, *see* subjects.
- Data access descriptions, 13771-772
- Data acquisition, requirements statements for selected equipment, 15673
- Data Acquisition Division, Office of Meteorological Operations, Silver Spring, Md., ESSA technical memorandum WBTM-DATAC series, 15673, 16971
- Data display programming, 994
- Data management, 15014
- Data processing, *see* Electronic data processing systems.
- Data processing technicians, technical assistant, examination announcement, 16694
- Data storage and retrieval systems, *see* Information storage and retrieval systems.
- DATAC, *see* Data Acquisition Division, Office of Meteorological Operation, Silver Spring, Md.
- Datcherute, Elizabeth, or heirs, relief, 9393
- Dates (fruit):
- growing in United States, 5030
- Dattilo, William P., multisection waveguide directional filter, 1569
- Daughters of American Revolution, National Society of, *see* National Society of Daughters of American Revolution.
- Dauman, Alexander, selling in France, 9204
- DAV, *see* Disabled American Veterans.
- Davenport, Edward C., New Florencia, census concepts, 6505
- Davenport, Edwin E., static longitudinal aerodynamic characteristics of some supersonic decelerator models at Mach numbers of 2.30 and 4.63, 11455
- Davenport, Iowa, area wage survey, 4603
- Davenport:
- and chairs, wood, executive office, Federal standard, 8257
 - executive office, Federal standard, cancellation, 11140
- David, Lily M., estimating cost of collective bargaining settlements, 11351
- Davidson, Helen J., water-quality records for Hubbard creek watershed, Tex., 8364
- Davidson, William R., retailing, 11660
- Davies, D. S., development of thin-liquid-film membrane unit for desalination by reverse osmosis, 9962
- Davies, Don, education professions development, investment in the future, 8166
- Davis, A. Bert, causes, measurement, and elimination of fuel-element fission product leakage at NASA Plum Brook Reactor, 14622
- Davis, Albert B.:
- nontariff barriers to movement of tobacco in free world countries, 9841
 - tobacco in Ontario, Canada, 1903
- Davis, Arthur A., remarks, Oct. 12, 1968, 783
- Davis, Charles L., Sea Spider site survey in support of Project Parka, 13252
- Davis, Donald R., American moths of family Carposinidae (Lepidoptera, Carposinoidea), 6071
- Davis, Edwin A., selective control of brush on chaparral watersheds with soil-applied fenuron and picloram, 14283
- Davis, Harry E.:
- digest of 100 selected pension plans under collective bargaining, spring 1968, 7172
 - negotiated retirement plans, decade of benefit improvements, 11353
- Davis, Howard P., address, Nov. 14, 1968, 3669
- Davis, J. R., evolution of artificial ionospheric plasma cloud as studied by HF and VHF radar, 13290
- Davis, James B., elementary allocation models, how to use in forestry operations, operations, 17932
- Davis, James K., fire prescription for consuming ponderosa pine duff, 1923
- Davis, Jeanne M., open space, its use and preservation, 50

Davis, Kenneth N., jr.:
addresses—
May 22, 1969, 9215
June 17, 1969, 10643
Sept. 29, 1969, 15165
nomination, hearings, 9452

Davis, L. E.:
antimony, 16072
mineral industry of Nevada, 2156

Davis, Lee D., pricing in a services business, 6224

Davis, Richard E., limb radiance calculation approach for model atmospheres containing horizontal gradients of temperature and pressure, 17242

Davis, Robert T., water supply outlook and Federal-State-private cooperative snow surveys for Washington, 3590

Davis, Theodore F., bibliographies of interest to atomic energy program, 192

Davis, William G. Jr., effects of right and left vagal cooling on heart rate, 5084

Davis, William M., wage calendar, 8549

Davis, Yvonne, relief, 9402, 13876

Davis Dam, and power plant, general information, 14831

Davis Lake, hydrology, 1975

Davis Strait, oceanographic cruise, summary, 13228, 13254, 13260

Davison, R. R., solvent stability and recovery in solvent extraction desalination, 800

Dawdy, David R., considerations involved in evaluating mathematical modeling of urban hydrologic systems, 9932

Dawson, Elsie H., family food buying, 16543

Dawson, Tex., aircraft accident, 16282

Day, James V.:
remarks—
Dec. 28, 1968, 1871
Jan. 27, 1969, 5612

Day care of children:
day care facts, 8937, 17441
Federal funds for day care projects, 7562
food service programs under National school lunch act—
meals for needy children, provide temporary emergency assistance, report, 12187
strengthen and expand—
hearings, 5373, 16877
reports, 6686, 6689
prelude to school, evaluation of inner-city preschool program, 13778
public and private nonprofit centers educational services, Federal assistance to improve, hearings, 396
trust funds for day care centers, employer contributions—
hearings, 9342, 9481
reports, 10714, 12261, 15283
who will take care of your child when you are in training or on the job? 15123

A day in the life, 1310

Day of Bread, designate, report, 16848

Days, see names of special days.

Dayton, Ohio.:
area wage survey, 10021
food distribution facilities, 3648
Metropolitan Intrastate Air Quality Control Region, report for consultation, 16369
model cities program, history and analysis, 8401

DCA, see Defense Communications Agency.

DCASR, see Defense Contract Administration Services Region.

DDT, used in farm production, 8154

Dead, socioeconomic characteristics of deceased persons, United States, 1962-1963, deaths, 6213

Deaf:
and psychiatry, report, 2451
clerk-carriers in post office experiment, 5565
education, review of selected program activities, 8388

Deaf—Continued
mental health programs, 16354
on frontier of silence, moral obligation to communicate (speeches), 4929
opportunities for hard of hearing and the deaf, 4912, 14847

Deaf, National Conference for Coordinating Rehabilitation and Education Services, see National Conference for Coordinating Rehabilitation and Education Services for the Deaf.

Dealers:
credit, regulations, 12644
FHA property improvement loans, guide, 14388
poultry, national improvement plan, participants, 8945
supplement, 7567
retail, liquor laws and regulations, 4412
subject to certain sections of title 1, National housing act, list, 5606
trout and pondfishes, lists—
Alabama, 11680
Arizona, 11682
Arkansas, 11681
California, 11683
Connecticut, 11684
Florida and Louisiana, 10385
Georgia, 10386
Idaho, 10388
Illinois, 10389
Indiana, 10390
Iowa, 10387
Kentucky and Maryland, list, 10391
Tennessee, 13449
Virginia, 13450

Dean, Jack L., biology of crayfish *Orconectes causeyi* and its use for control of aquatic weeds in trout lakes, 6258, 13467

Dean, Karl C., chemical and vegetative stabilization of Nevada copper porphyry mill tailing, 10062

Deans (in schools):
workshop, college deans, 8587

Dear Virginia, 10641

Dearing, J. David:
heat-transfer and pressure distribution inside hinge-line gap of wedge-flap combination at Mach number 10.4, 1126
laminar heat-transfer distributions for blunted cone, cone-frustum reentry configuration at Mach 10, 7299

Death:
by sex, age and level of characteristic at exam for 22 characteristics, etc., Framingham study, 8693
coal-mine fatalities, mineral industry survey, monthly, 2664
death from cause other than cardiovascular disease by sex, age and level of characteristic, etc., Framingham study, 8696
fatal and injury accident rates, 1967, on Federal-aid and other highway systems, 6216
fatal injuries resulting from extreme water impact, 10578
infant and perinatal mortality in England and Wales, 1351
morbidity and mortality weekly report, 3148
mortality—
aged before and after medicare, 10366
trends in Czechoslovakia, 17358
vital statistics of U.S., 1356, 14812
oyster mortalities, with particular reference to Chesapeake Bay and Atlantic Coast of North America, 1669
radiation mortality of rodents under hypobaric-hypoxic conditions, 11902
records, where to write, 1357
servicemen's bearing war-time mortality costs under servicemen's group life insurance program, legislation needed to avoid, Veterans Administration, GAO report, 11217
see also Dead.

- Death certificates:
 comparison of classification of place of residences on death certificates and matching census records, 6208
 marital status, race, nativity, and country of origin on death certificate and matching census record, Mar.-Aug. 1960 comparability, 10336
- Death Valley National Monument:
 dunes (poster), 6087
 general information, 1218
- de Aubri, Pelagie G. F., or heirs, relief, 9393
- De Baca County, N. Mex., water resources and geology, 9907
- Debates and debating:
 high school topic, 1969-70, selected excerpts and references, 9379, 15224
 national collegiate topic, 1968-69, executive control of U.S. foreign policy should be significantly curtailed, 356
- de Beuchamp, Robert L., preparation of anhydrous aluminum chloride, 10052
- DeBell, Dean S., seedling habits of swamp tupelo, 17054
- DeBethune, Andre J., heats and entropies of transport of ions in aqueous solutions, 7089
- Debits, *see* Banks and banking.
- Debt:
 adjusting business in D.C., prohibit, report, 12256
 bad debt reserves of commercial banks, tax reform hearings, summary of testimony, 15340
 farm mortgage, 6862
 home mortgages, estimated, quarterly, 2805
 tax information on deduction for bad debts, 14417
see also Public debt.
- Debuzzing, *see* Check-out.
- De Carlo, Joseph A., coke and coal chemicals, 534
- Decay (radioactive):
 radon decay products interaction with aerosols, 10254
 shock wave pressure decay in polycarbonate targets, impacted by cylindrical polycarbonate projectiles, 2228
see also Beta decay.
- Decay (timber):
 changes in wood micro-structure through progressive stages of decay, 683
 discoloration and decay in living northern hardwood trees, photo guide to patterns, 17042
 micro-organisms decay capabilities in wood chip piles, new method for appraising, 15762
 natural decay resistance of fifteen exotic woods imported for exterior use, 11182
 upland oak stands of Kentucky, 15773
 ceased, *see* Dead.
- Deceased, *see* Dead.
- Decedent's estates, *see* Estates.
- Decelerators:
 supersonic models, at Mach numbers of 2.30 and 4.63 static longitudinal aerodynamic characteristics, 11455
 towed, 48-inch-diameter (121.92-cm) ballute decelerator tested in free flight at Mach numbers from 4.2 to 0.4, performance, 5990
- Decent home, 2397
- Deception, *see* Camouflage.
- Deceptive programing practices, report, 5363
- Deciduous fruits, *see* Fruit.
- Decision-making:
 effects of alcohol, with respect to traffic signals, 13350
 labor statistics for national decision-making (address), 14438
 process, participation of the poor in community decision-making process, CAP mission guide, 15336
 safety aids, progressive new approach to systems safety management, 5757
- Decision-making—Continued
 specialists and generalists in Government, selection of readings, 476
- Decisions, *see* names of courts, etc., rendering decisions—*also* subjects.
- Decker, John P., aerodynamic interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers 3 and 6, 14627
- Declaration of Independence, text, 9378
- Decoders, navigation decoder and display for general-aviation aircraft, navigation aid, 17224
- Decoding:
 comparison of sequential decoding metrics by computer simulation, 4751
 sequential, use of log-a-posteriori probability metric, 8609
- Decomposition:
 ammonium nitrate encourages decomposition of ponderosa pine needles under laboratory conditions, 9855
 pyrolytic, studies of tetraethoxysilane for obtaining high-grade SiO₂ films, 3739
 rate of decomposition in aqueous solution determined by NMR techniques, 1267A
 vaporization and decomposition kinetics of candidate re-entry blackout suppressants in low-pressure flames, 14567
- Decompression:
 rapid, explosive, in pressure-suited emergencies, 2199
 sequential, during simulated orbital flight, endocrine-metabolic response to, 97
 stress in simulated orbital flight, 93
 stress severity, nitrogen and helium as factors affecting, 98
- Decompression sickness, *see* Aeroembolism.
- Decoration and ornament, ornamented fabrics, etc., trade and tariff information, summaries, 1461
- Decorations of honor:
 Armed Forces decorations and awards (poster), 6427
 laws, compilation, 347
- DeCoste, John, Gaston fire, 8311
- Decoupling, seismic, at nuclear level, experiment, Project Dribble, Salmon event, Vela Uniform program, Tatum Salt Dome, Miss., 9074
- 2-(1-decylamino) ethanethiosulfuric acid, *see* Sulfuric acid.
- Dedication, discipline, duty, Republican report of Everett McKinley Dirksen, 4010
- Deductions, *see* Income tax.
- Deep Creek, Colorado River basin, Tex., 1966, compilation of hydrologic data, 12763
- Deep Freeze Operation, *see* Antarctic regions.
- Deep sea release mechanism, 614
- Deer:
 aspen grove use in southwestern coniferous forests, 14281
 browse production, rapid sampling and computer-aided analysis, 4312
 effects of protection from deer on survival and growth of Douglas-fir seedlings, 7010
 mule, habitat management, 14865
 response to alternate-strip clearcutting of lodgepole pine and spruce-fir timber in Colorado, 14284
 spring-season browsing of Douglas-fir on Capital Forest, western Washington, 4315
 thinning, clearcutting, and reseeding affect deer and elk use of ponderosa pine forests in Arizona, 5671
 use of Ponderosa pine forest in Arizona before and after timber harvest, 14282
- Deer Flat National Wildlife Refuge, birds, list, 16449
- Deer Lake, geology of proposed powersites, 9584
- Deering, Louis A., relief, 13904

Deerwester, Jerry M., Jupiter swingby missions to nonspecific locations in interplanetary space, 11477

Defense, *see* Civilian defense—National defense.

Defense Atomic Support Agency Information and Analysis Center, special reports, 6825

Defense bonds, *see* Savings bonds.

Defense communications, *see* Military communications.

Defense Communications Agency, DCA circulars, 5474, 15491

Defense Construction Supply Center, Columbus, Ohio, annual historical summaries, 12335-336

Defense Contract Administration Services, procurement quality assurance program, what is observation?, 16909

Defense Contract Administration Services regions:
annual historical summaries—
Atlanta, Ga., 12337
Boston, Mass., 12338
Chicago, Ill., 12339-340
Cleveland, Ohio, 10933
Dallas, Tex., 12341
Detroit, Mich., 10934
Los Angeles, Calif., 12342
Philadelphia, Pa., 12343
St. Louis, Mo., 12344
San Francisco, Calif., 12345

Defense contracts, *see* Government contracts.

Defense Department:
aeronautical spare parts, need for more competition in procurement of, GAO report, 712
appropriations, 1969—
hearings, 13916
military procurement, supplemental—
hearings, 5367
reports, 669, 6697
appropriations, 1970—
civil functions, report, 15208
hearings, 10765, 12203, 16809
military procurement, authorization—
hearings, 10887, 15302
reports, 12258, 15295, 16772

Assistant Secretary—
comptroller, nomination of Robert C. Mott, hearing, 5428
international security affairs, nomination of G. Warren Nutter, hearing, 5427
manpower and reserve, nomination of Robert T. Kelley, hearing, 5428

Assistant Secretary, nomination of—
Froehke, Robert F., hearing, 4070
Shillito, Barry J., hearing, 4070
Public Affairs, nomination of Daniel Z. Henkin, hearings, 9447

blue-collar jobs, emergency need for, 2124

candidates in officer training programs, cessation of unauthorized payments of proficiency pay and variable reenlistment bonuses, GAO report, 14306

cataloging and standardization program, semiannual reports, 391A, 5368, 13919

cataloging handbook II series, 2840-2850, 2879-80, 2882-84, 4122, 6823

cataloging manual M series, 526, 4123, 5477-78, 8112, 9510-12, 10943

civilians employed at military installations, improve management of detailing, GAO report, 714

commanders digest (periodical), 2672
index, 5479, 6824

configuration status accounting data elements and related features, military standard, 6841

Contract Management Conference, Contract Administration Services—
computer communication network, 1776
engineering role, 1777
evaluating contractor performance and capability, 1782

Defense Department—Continued
Contract Management Conference—Con.
logistic system interfaces, 1781
management science in procurement cycle, 1772
manpower, 1774
operations evaluation, 1771
organization, 1770
pricing, 1783
proceedings, 1769
production surveillance and reporting, 1779
property, 1780
quality assurance, 1778
recommendations, 6831
resources management, 1775
techniques, 1773

contracting for research with sponsored nonprofit contractors, need for improving guidelines, GAO report, 5689

contractors' safety manual for ammunition, explosives, and related dangerous material, 1784

cost evaluation for movement of household goods between United States and Germany, GAO report, 1942

defense industry bulletin (periodical), 2753

defense management journal, 2754

Deputy Secretary designate, nomination of David Packard, hearings, 4071

Director, research and engineering, nomination of John S. Foster, jr., hearing, 5428

DoD pamphlets, 109-132, 1556-64, 3719-31, 5092-5103, 7643, 9019-25, 10534-536, 11926, 13651, 15631, 16578

DoD posters, 6427, 9026, 10538, 11927

DoD systems and equipment, integrated logistics support planning guide, 538

evaluation of 2 proposed methods for enhancing competition in weapons systems procurement, GAO report, 12742

handbook DSAM series, 527-528, 1768, 2756, 4124-25, 5480-82, 6827-29, 8113, 16908-909

handbook DSASCH series, 6826

high dollar spare parts breakout program, 7646

High School News Service report (periodical), 15524

incentive contracting guide, 15495

internal audit of civilian payroll operations, opportunities for improving, GAO report, 11219

leasing rather than purchasing land and buildings by contractors increased costs to Government, GAO report, 711

management—
correspondence course, Industrial College of Armed Forces, information booklet, 556
education and training, 1767
maintenance of commercial vehicles, cost reductions, GAO report, 704

manual DSAM series, 529, 4126, 5483-85, 6830, 8114-17, 9516-18, 10944-945, 12350-352, 14082-84, 15493-494, 16910-911

market for wooden pallets, 15769

military building program in Thailand, problems in administration, GAO report, 11222

military construction authorization, 1970, hearings, 12206

military construction program, unused engineering and design effort, GAO report, 17067

military family housing and bachelor officer and enlisted quarters, policies, etc., for determining requirements, GAO report, 5691

military handbooks, 9521

Defense Department—Continued

military hospital construction projects, procedures, and practices for developing and reviewing proposed units, GAO survey, 1951

military standards, 540-551, 1787-92, 4132-37, 5497-5509, 6838-44, 8133-39, 9522-27, 10952-956, 12362-371, 14099-112, 15527-530, 16923-930

national industrial reserve, annual report to Congress, 14080

need for improved accounting for civilian employees' leaves of absence in military depots, GAO review, 4341

need for improvement in receipt and storage of military supplies and equipment, GAO report, 12716

overseas schools, extend program for allocation of funds, elementary and secondary education act amendments of 1969—
hearings, 5372, 6709
reports, 6695, 7891

procurement—
competition, minimize concentration, hearings, 6794
data packages, military standard, 1791
personnel, etc., investigation—
authorization, report, 5351
expenses, report, 6669

procurement quality assurance, handbook, 12378
supplement, 16935

procuring and stockpiling jewel bearings, GAO report, 8331

quality and reliability assurance handbook, 12377-378, 16935

real and personal property, status report, 14115

regulations DSAR series, 8118, 10946

requirements contracting and other aspect of small purchases, GAO review, 4343

reserve forces, annual report, 15492

savings attainable through improved application of economic order principle in procurement of military supplies, GAO report, 11224

savings available by using space on military aircraft to transport baggage between U.S. and Southeast Asia, GAO report, 9879

savings in shipments of printed matter from Japan to points in Pacific, GAO report, 11225

school system for overseas dependents, European area, Defense Dept., GAO report, 14323

Secretary designate, nomination of Melvin R. Laird, hearings, 4071

small freight shipments, opportunity for savings from consolidation system, GAO report, 11220

specification practices, military standard, 6842

specifications and standards, index, 14096
appendix, 14097
supplements, 2971

standardization documents, supply classification listing, 2881, 14094

standardization manual M (series), 3456

standardization policies, procedures, etc., manual, 3456

State-Defense Officer Exchange program, analysis and assessment, 6788

surplus personal property, how to buy, 10950

telephone directory, 2759

transportation activities in Far East and Southeast Asia, overall observations, GAO report, 8334

travel and transportation, civilian personnel, permanent change of station travel, etc., general information, 134

Defense Department—Continued

travel regulations, civilian personnel, 3020

U.S. construction activities, in Thailand, 1966-67, GAO report, 1952

use of spare Government-owned communications circuits in Europe, GAO report, 8329

utilization and marketing handbook, supplement, 5486, 16912

value engineering conference, role of value engineering in support of defense management objectives, 4127

value engineering, design or manufacture simplification, performed by contractors, opportunities for increased savings by improving management, GAO report, 14321

wooden pallets market, requirements, etc., 7021, 15769, 17046

Defense Depot Memphis, Memphis, Tenn., annual historical summary, 12346

Defense Depot Ogden, Ogden, Utah, annual historical summaries, 10935-936

Defense Depot Tracy, Tracy, Calif., annual historical summary, 12348

changes, 1768, 5484, 10944, 15494

Defense Documentation Center, annual historical summaries, 14078-79

Defense Electronics Supply Center, annual historical summary, 10937, 12349

Defense Fuel Supply Center, operations and accomplishments, annual historical summary, 10938

Defense General Supply Center: operations and accomplishments, annual historical summaries, 10939-940
statistical annex, 10959

Defense Industrial Plant Equipment Center, operations and accomplishments, annual historical summaries, 10941-942

Defense Industry bulletin (periodical), 2753

Defense Logistics Services Center: annual historical summary, 9514-15
DSA-DLSA handbooks, 5486, 16912

Defense Preparedness Office, disaster loan programs, hearings, 12288

Defense procurement circular, 2755

Defense Production Joint Committee, annual report, 3982

Defense Supply Agency: civilian career program for auditors, 9516
correspondence manual, change, 12352

Defense Depot Tracy, annual historical summary, 12347-348

Defense Electronics Supply Center, operations and accomplishments, annual historical summary, 10937

Defense Industrial Plant Equipment Center, operations and accomplishments, annual historical summaries, 10941-942

DSA authorized data list manual, 16911

Defense Supply Agency: DSA-DLSC handbooks, 5486, 16912
field establishment directory, 4125, 16908
files maintenance and disposition, manual, change, 5485
handbook DSAM series, 527-528, 1768, 2756, 4124-25, 5480-82, 6827-29, 8113, 16908-909

implementing procedures for purchase of supplies under DoD coordinated procurement program, 8118

index of publications & forms, 2756

introduction to, 5494

item management coding manual, 8116

manual DSAM series, 529, 4126, 5483-85, 6830, 8114-17, 9516-18, 10944-945, 12350-352, 14082-84, 15493-494, 16910-911

poster series, 5515

procurement regulations, 2757, 12353

provisioning and other preprocurement screening, manual, 16910

regulations DSAR series, 8118, 10946

Defense Supply Agency Administrative Support Center:
handbook DSASCH series, 6826
index of publications, forms, etc., 6826
Defense utilization manual, 6830
Definitions and abbreviations, F.A.A., 11042
Definitive designs for naval shore facilities, 1236, 16289-290
Defoliants, military use in Vietnam, technology assessment, 15331
Defoliation:
estimating, of Douglas-fir and white fir by western budworm, 14287
yellow lenses in Air Force operations, 3701
Deformations (mechanics):
bubble coalescence in ice, history study, 9031
diffusion law for dispersion of hard particles in ice matrix that undergoes simple shear deformation, 3744
friction, deformation and wear of aluminum, effect of orientation and presence of surface active materials, 1724
granite, basalt, limestone and tuff, strength and deformation properties at various loading rates, 6907
high temperature deformation of nickel, proposed model for effect of oxidation, 10153
large, in mechanics of solids with applications to axisymmetric shells of revolution, incremental analysis, 11410
single-crystal and polycrystalline gold, influence of surface films, 1098
transverse shear deformation effects in vibrating beams, approximate theory, 11407
Deformities, classification of congenital malformations, for use in coding birth certificates in National Cleft Lip and Palate Intelligence Service, 4874
Degradation, siloxane, at high temperature, and effect of cerium-based inhibitor, hypothesis, 10268
Degrees (colleges, universities, etc.):
advanced degree programs, 1951-67, contribution of medical schools and universities to training of medical school faculties, 10195
advanced students enrolled, 4186
institutional data, 5544
summary data, 6880
associate degrees and other formal awards below baccalaureate in higher education, 6867, 14129
college degree, training for a job, 5548, 15636
doctor's degrees conferred by U.S. institutions, 1957-67, by State institution, and field, 12426
earned degrees conferred -
institutional data, 4165, 12427
summary data, 1806, 10981
graduate enrollment and Ph. D. output in scientific fields, 1960-61 through 1965-66 trends, 1199
master's degree training program, 1968 college recruiting, report, 11058
men with college degrees, population characteristics, 6500
Naval Postgraduate School, Monterey, Calif., abstracts of dissertations, theses, and research papers submitted by candidates for degrees, 14737
DeHaven, C. G., operation of reverse osmosis pilot plants, 9964
DeHuff, Gilbert L.:
nickel, 16091
vanadium, 12031
Dehydrated foods, *see* Dried foods.
Dehydration, *see* names of commodities.
Dehydrogenase, lactate and pyruvate responses, biochemical cycle functions, saturation-excision diving, 922
Deinema, J. W., quality of environment vital to all, 7003

Deitz, Victor R., interaction of water vapor with pristine E-glass fiber, 10256
de Korosy F., influence of strongly bound counter-ions on permselective membranes, 4396
Delaney, Donald J., military review, 3121
Delap, Owen E., manpower and employment statistics publications of Bureau of Labor Statistics, selected bibliography, 8558
Delaware:
ASCS, annual summary, 11812-814
census of business, 1967, retail trade, area statistics, 13734
climatological data, 2662
Cretaceous-Tertiary boundary, 5704
electric rate book, 1875
employment statistics, 1958-66, compilation, 12979
Federal outlays, report of Federal Government's impact by State and county, 9540, 9590
mineral industry, minerals yearbook chapters, 949, 17181
population, special census, 5221
postal map, 7402
precipitation data, hourly, 2962
water resources development by Army Corps of Engineers, 12552
Delaware and Hudson RR. Corp., accident, report, 11095
Delaware County, Ohio, soil survey report, 13445
Delaware River and Valley:
Tocks Island dam—
hydroelectric power development report, 12274
power aspects, hearings, 6801
Delaware River Basin Commission:
appropriations, 1970—
hearings, 12204
report, 15298
Delaware Water Gap National Recreation Area, general information, 4799
Del Baglivo, Anna, relief, 6627
Del Duca, Betty S., electrochemical behavior of aluminum electrode in molten salt electrolytes, 17247
Delegates, *see* House of Representatives.
Del Grosso, Vincent A., systematic errors in ultrasonic propagation parameters measurements, effect of unite thickness solid tubes enclosing liquid cylinder of interest, 10265
Delinquency, *see* Juvenile delinquency.
Della-Bianca, Lino, intensive cleaning increases sapling growth and browse production, 9865
Delle Donne, Carmen R., registers and letters received by Commissioner of Bureau of Refugees, Freedmen, and Abandoned Lands, 1865-72, pamphlet to accompany, 11512
Delphinus delphis, *see* Dolphins.
Delta, Calif., estuary, water pollution, hearing, 12223
Delta launch vehicle, *see* Spacecraft.
Delta-Mendota Canal, Central Valley project, Calif., biogeochemistry, 16393
Delta National Wildlife Refuge, general information, 6254
Delta Queen (passenger vessel):
period for compliance with certain safety regulations, extend, hearings, 1706
Delta wings, *see* Wings (aircraft).
Delvigs, Peter, synthesis of novel polyimide precursor, 8613
Demand, *see* Supply and demand.
DeMarco, Carlo, relief, 10703
Dembrow, Daniel, flight performance of FW-40 solid propellant rocket motor on Delta 50 (AIMP-E), 7249
Demerol, glucose tolerance in dogs exposed to altitude and drug administration, 96
Deminerization of saline water, *see* Water.

- Deming, Frederick L.:
addresses, etc.—
Aug. 27, 1968, 1477
Oct. 7, 1968, 7552
Oct. 23, 1968, 1480
- Democratic Party National Convention, disruption of 1968, subversive involvement, hearings, 10792, 12230
- Demodulators, classification definitions, 2383
- Demography:
and socio-cultural characteristics, Papago Indian reservations, Ariz., 10298
demographic data, Federal Health Programs Service, annual statistical summary, 14792
lectures, case studies in surveys and censuses, 5232
off-reservation service Indian population, Sells Service Unit, Ariz., 13337
- Demolition, *see* Wrecking.
- DeMont, Albert L., progress report of vocational-technical education program development for persons with special needs, by States, under Vocational education act of 1963, 6895
- Demonstration guide for prevention of electric shock injury, 17332
- Demonstration projects, *see* Recreational areas and demonstration projects.
- Demonstrations (manifestations of feelings): public grounds in D.C., limit use for demonstration purposes, and require posting of bond—
hearing, 10804
reports, 10711, 10719
- DeMonte, Enrico, relief, 6593
- Dempsey, Gilbert P., guidelines for establishing forestry cooperatives, 17048
- Denardo, B. Pat, projectile shape effects on hypervelocity impact craters in aluminum, 2252
- DeNardo, T. A., proceedings of Merchant Marine Council, 3336
- Denaro, John (Giovanni): relief, 7999, 16730, 16750
- Denaturalization, *see* Citizenship.
- Dendroctonus frontalis, *see* Beetles.
- Dendrometers:
Barr and Stroud, revised calculator, 8302
NETVSL, computer program for calculation of tree volumes with interior defect, 4323
optical, mirror caliper, 11180
- Dendy, P. E., summary of reservoir sediment deposition survey made in U.S. through 1965, 10491
- Denery, Dallas G., evaluation of pilot describing function method applied to manual control analysis of large flexible booster, 11447
- Denmark:
agricultural economy and trade, 4157
economic trends and their implications for United States, 816, 9994
market factors, 3899
plant quarantine import requirements, 7576
- Denmark Strait, oceanographic cruise, summary, 13233
- Dennisonville, N.J., floods, how to avoid damage, 12490
- Densitometers:
estimation of serum proteins by quantitative densitometry after gel electrophoresis, 6421
measurement of liquid and two-phase hydrogen densities with capacitance density meter, 10103
- Densitometry, *see* Densitometers.
- Density:
and oil yield, for oil shales, theoretical relationship, 7218
bubbles and bubble pressures in Antarctic glacier ice, 1575
data, molten salts, 1176
- Density—Continued
design difficulties in stand density studies, 11179
East China Sea, 10215
effects of projectile density and target temperature when determining crater characteristics of 11 metal alloys under hyper-velocity impact, 8627
gases at high temperatures and densities, theoretical thermodynamic properties, 2352
gradients near liquid/air interface, 11742
helicopter height-velocity diagram effects, investigation, 1050
Martian atmosphere, analysis of gamma-ray-backscatter technique for direct measurement, 16180
measurement of liquid and two-phase hydrogen densities with capacitance density meter, 10103
probability density functions of n vectors added with random directions, 16316
refractive index-particle density correlation for nonequilibrium cesium plasmas probed by multifrequency helium-neon laser, 11498
Sea of Japan, 13220
sea water, measuring, density-gradient column as tool, 1268
source density representation, improvement of integral equation method in plane elasticity through modification, 5977
stellar temperatures and densities, ionization equilibrium equation of state at, tables, 6142
surface water, Atlantic Coast, North and South America, 296
tables of bias functions, B_1 and B_2 , for variances based on finite samples of processes with power law spectral densities, 4765
upper-atmosphere density-determination using NRI artificial satellites, 10264
Yellow Sea, 13218
- Dental administration, Navy manual, change, 14739
- Dental calculus:
formation rate in submarine environment, 11371
whole saliva and dental calculus in submariners, study, 11374
- Dental care, *see* Dentistry.
- Dental caries, *see* Teeth.
- Dental clinics, dental treatment room, improved illumination, 11900
- Dental diseases, *see* Teeth.
- Dental health, *see* Teeth.
- Dental Health Center, applied research facility of Division of Dental Health, mission and programs, 6176
- Dental Health Division, Dental Health Center, applied research facility, mission and programs, 6176
- Dental hygienists:
education program, planning, 1197
employment outlook, 4494
- Dental instruments and apparatus:
dental X-ray teaching and training replica, 2421
Federal item identification guides for supply cataloging, supplements, 2847
- Dental kits, dental surpak summary report, 11619
- Dental laboratory technicians, employment outlook, 4495
- Dental officers, *see* Dentists.
- Dental research, research grant awards, National Institute of Dental Research, 1967 funds, 1194
- Dental schools, Army Institute of Dental Research graduate course, 7672
- Dental science, laboratory comparison of four zinc oxide-eugenol formulations as restorative materials, 9006

- Dental supplies:
 dental surpak summary report, 11619
 Federal item identification guides for supply cataloging, supplements, 2847
- Dental surpak summary report, 11619
- Dental technicians, dental laboratory technicians, employment outlook, 4495
- Den-Tal-Ez Chair Manufacturing Co., President's E award for export excellence presentation (address), 10641
- Dentifrices:
 self-preparation stannous fluoride prophylactic technique in preventive dentistry, report after 2 years, 14516
 stannous fluoride, clinical evaluation, when used as constituent of prophylactic paste, topical solution, and dentifrice in Naval personnel, report after 2 years, 13003
- Dentistry:
 advanced theory and science of dental practice, graduate course, 7672
 audiovisuals, selected list, 14699
 barmale cement as dental restorative adhesive, 1185
 character of Air Force dentistry, 3691
 clinical evaluation of stannous fluoride when used as constituent of prophylactic paste, topical solution, and dentifrice in Naval personnel, report after 2 years, 13003
 dental administration, Navy manual change, 14739
 dental radiation protection, regulations, standards, and guides, annotated bibliography, 13344
 dental services for American Indians and Alaska natives, annual reports, 2413, 16339
 dental support, Fleet Marine Force manual, 7194
 dental X-ray teaching and training replica, 2421
 head positioning for Panorex X-ray machine, 928
 mandibular incisors with large area of bone involvement, conservative management, case report, 16062
 oral acidogenic bacteria in Antarctic, 12998
 prepaid dental care plans, 1967, directory, 6059
 preventive, self-preparation stannous fluoride prophylactic technique in, report, 14516
 recent legislation, 1968, summaries, 4789
 tax deduction for medical and dental expenses, 8427
 Veterans Administration, career opportunities, 4997
 veterans benefits, for service since Jan. 31, 1955, 8933
- Dentists:
 and Project Head Start, 12398
 dental officer, examination announcement, 12052
 dental residencies and internships, workshop, summary of recommendations, 6344
 employment outlook, 4496
 expenditures for services, by region and state, per capita, 13437
 in Indian health, 11609
 make your practice perfect, join Air Force Reserve, 6414
 uniformed services dental officers, active duty extension, continuation pay, report, 1728
- Denton, Thomas C.:
 mineral industry of—
 Republic of South Africa, 5945
 South-West Africa, 968
- Dentifrices, containing clay, short term clinical evaluation, 8581
- Denture-based materials, *see* Resins.
- Dentures, *see* Teeth.
- Denver, Colo.:
 area wage survey, 8556
 continuous air monitoring projects, National Air Surveillance Projects, 1965, data tabulations and summaries, 16358
- Denver and Rio Grande Western RR. Co., accident, report, 11098
- DePalma, John R.:
 marine biofouling at Penobscot Bay, Maine and Placentia Sound, Newfoundland, 1960-68, 6293
 oceanographic cruise summary, marine biofouling studies off Maizuru, Yokosuka, and Sasebo, Japan, 2327
- Department stores, *see* Stores.
- Dependent children, *see* Children.
- Dependents:
 disabled, income tax deductions, 4497
 tax exemptions for dependents, 8457
 U.S. personnel assigned to South Vietnam, duty-free entry privileges in Philippines, agreement, 7496
see also Armed Forces—Army—Pensions—Veterans.
- de Polo, Taber, mineral industry of other Far Eastern and South Asian areas, 2161
- Deportation, cases suspended, report, 13869
- Deposit and collection receptacles, classification definitions, 2377
- Deposition, *see* Sedimentation and deposition.
- Depository libraries, *see* Libraries.
- Deposits (soldiers, etc.):
 uniformed services savings deposit program, 11943
- Depots, *see* Storage.
- Depreciation:
 depreciation, depletion, tax information, 8428
 real estate accelerated depreciation, tax reform hearings, summary of testimony, 16815
 sales and other dispositions of depreciable property, tax information, 12838
 tax, and need for reserve ratio test, 2532
 treatment of tax depreciation by regulatory agencies, tax reform hearings, summary of testimony, 15349
- DePree, David O., recovery of metal salts from concentrated brines by chelation, 9971
- Deprivation (sensory), *see* Sensory deprivation.
- Depth perception, *see* Perception.
- Deputy marshalls, *see* Marshalls.
- DePuy, G. W., disposal of brine effluents from inland desalting plants, review and bibliography, 14407
- DRL, *see* Environmental Radiation Division.
- Derby, Thomas P., loss factor and resonant frequency of viscoelastic shear-damped structural composites, 5976
- Dermo-optical sense, *see* Tactile sensitivity.
- DeRose, Charles E., trim attitude, lift and drag of Apollo command module with off-set center-of-gravity positions at Mach numbers to 29, 11480
- Derrington, Clara P., investigation of colorless and water-based concrete curing compounds, 11016
- Desalination:
 biological, phenomena, study, salt transport mechanisms of selective avian salt glands, 9970
 brine waste, study of deep-well disposal, 17094
 by electrodialysis, hydrodynamic theory, 802
 desalting and energy development and utilization, practical considerations (remarks), 6478
 desalting plants inventory report, worldwide land based desalting plants capable of producing 25,000 gallons or more fresh water daily, projections of future development, survey, 795

- Desalination - Continued
 - development of propane hydrate desalting process, 801
 - economics of desalting brackish waters for regional, municipal, and industrial water supply in west Texas, 2005
 - electrochemically controlled ion-exchange desalination, transport processes, 7088
 - freeze desalination crystallizers, development of methods for determining ice particle size distribution, 7087
 - inland desalting plants—
 - deep-well injection of waste brine from, feasibility, 8421
 - disposal of brine effluents, review and bibliography, 14407
 - membrane desalting plants, pretreatment methods, cost effectiveness study, 9967
 - membranes, reverse osmosis, development, 804
 - plants—
 - disposal of effluents—
 - effects of copper content, heat, and salinity, 9973
 - into estuarine waters, 9958
 - evaluation of concrete and related materials, 2d annual progress report, 4398
 - research, Oak Ridge, 15862
 - reverse osmosis—
 - concentration polarization control, 15863
 - desalination unit at Webster, S. Dak., operation, 8420
 - development of thin-liquid-film membrane unit, 9962
 - methods to retard compaction of cellulose acetate membranes, study, 15861
 - pilot plant, sea water, 11286
 - plants, pumping and energy recovery systems, 15855
 - salt water, by freezing method, USSR study, 15928
 - secondary refrigerant freezing desalting process, operation of 15,000 GPD pilot plant, 9959
 - solvent extraction, solvent stability and recovery, 800
 - 250 million gallons per day combined vertical tube-flash evaporator plant, conceptual design study, 4399
 - see also* Sea water.
 - Desalting of sea water, *see* Sea water.
 - Deschler, Lewis, Constitution, Jefferson's manual, and rules of House of Representatives, 7838
 - Deschutes National Forest:
 - designate Mount Jefferson Wilderness, report, 4046
 - Mt. Jefferson Primitive area, general information, 8285
 - Descriptors, *see* Subject headings.
 - Desegregation in education, *see* Race problems.
 - Desert lands, sub-arid lands, remote detection of earth resources, 2218
 - Desert National Wildlife Range:
 - amphibians and reptiles, list, 2472
 - general information, 16443
 - Desertion (military):
 - military deserters—
 - problem, hearings, 4069
 - treatment, report, 6763, 6776
 - Deserts:
 - California, recreation study, 12985
 - desert flooding in White Mountains of California and Nevada, sequential study, 3760
 - semidesert habitat in southern Arizona, soil temperature variations, 9848
 - Desha County, Ark., community profile, 15557
 - Deshailes, John C.:
 - family health survey, 16656
 - Desiccants, desiccation of woody stems, influenced by connected live tissues, 11178
 - Design and preliminary operation of Lewis magnetohydrodynamic generator facility, 1090
 - Design criteria for snow runways, 3750
 - Design difficulties in stand density studies, 11179
 - Design manual DM series, 1237, 2326, 4818, 7367, 8740, 13208, 14722, 16291, 17298
 - Designing public transportation for use by the handicapped, 10282
 - Designs (aircraft):
 - composite research aircraft—
 - hot cycle rotor/wing, 6450
 - tilt prop-rotor, 6451
 - crash survival design guide, 15058
 - design techniques for small scientific satellite structures, 13068
 - development of design concepts for demulsification of JP-4 fuel emulsions, 5129
 - engine air inlet particle separator for CV-7A, aircraft, 180
 - injectors and ablative thrust chambers for flox-propane rocket engine with 1.2-inch throat diameter, 11496
 - Integrated life support system for aerospace application utilizing radioisotopes for thermal energy, design study, 3799
 - light aircraft, design concepts, 7229
 - model design of soil-projectile system, application of similitude, 1027
 - NASA space vehicle design criteria, structures, propellant slosh loads, 2214
 - optimum design and flight of rockets, investigation, 4753
 - SST design, with applications to, synthesis methods for manual aerospace control systems, 2191
 - turboalternator, description, 7230
- Designs (architectural), *see* Architecture.
- Designs (industrial):
 - Brayton rotating unit on rolling-element bearings, 14578
 - conceptual plant design for 1000 MWe sodium-cooled fast reactor follow-on study, task report, 16621
 - coupling of fracture mechanics and transition temperature approaches to fracture-safe design, 10270
 - designs of electric systems for naval aircraft and missiles, technical manual, 10213
 - distribution line design (mechanical), rural electric systems, engineering and operations manual, 17365
 - ejection-type atomizer, theory and design, USSR study, 5820
 - electronically scanned star sensor with digital output, design, 11483
 - gas turbine powered vapor compression plant for evaporation of seawater, 2006
 - liquid-filled projectile design, engineering design handbook, 9028
 - shelter design and analysis, environmental engineering for shelters, 9178
 - 60-ft. X-band antenna, NRL Microwave Space Research Facility development, 17314
 - star tracker, horesighted, multipurpose, design and development, 7225
 - structural steels, fracture-safe design, integration of metallurgical and fracture mechanics concepts of transition temperature factors, 13300
 - trussed rafters, criteria, 15827
 - tubular reverse osmosis pilot plant, 1000 gallon per day, 9966
 - welded-joint designs, armored-tank type, military standard, 6838
- Designs (patents):
 - official gazette of Patent Office, 3214
- Des Laes National Wildlife Refuge, mammals, list, 16450
- Des Moines, Iowa, area wage survey, 12968

Desolation Wilderness in California : designate as wilderness area, proposal—
hearing, 5451
reports, 6767, 15258-275

Desorption, and electrosorption process for demineralization, 4404

De Soto National Memorial, general information, 10201

DeSoto National Wildlife Refuge : birds, list, 6251
general information, 16452

Desoxyribonucleic acid, intraphage DNA, investigation of structure with use of dyes, USSR study, 15937

DeStefano, Giuseppe, relief, 6630

Desy, Donald H., dispersion-strengthened copper, its preparation and properties, 5955

Detection and presentation of severe thunderstorms by airborne and ground-based radars, comparative study, 11024

Detectors :
annular lithium-drifted germanium detector for studying nuclear reaction gamma-rays, 1001
classification definitions, 2383
LiF detectors, use in neutron flux integrator, feasibility study, 13693
lithium-drifted silicon as low-energy photon spectrometers, 7258
lithium-drifted silicon semiconductor detectors, resolution changes, 1118
median detector for noncoherent distributions, 13299
mercury cadmium telluride as 1- to 20-micrometer wavelength infrared detector for space applications, 1121
methane ionization detector, extended testing, 7690
misalignment detector for axial loading fatigue machines, 7328
Pegasus and Explorer XXIII detector panels, calibration, 16204
silicon electron, tables of response functions, 14673
vacuum UV detectors-spectroscopy systems for capsule reentry measurements, evaluation, 5975
zinc-doped germanium, effects of zinc concentration on output, 1070

Detergents, *see* Cleaning compounds.

Deterioration, pulp chips, control with kraft green liquor, 15764

Determining information needs of scientific institutes, USSR, 2050

Dethlefsen, Rolf, experiments on high power, pulsed, constricted arc heater, 5973

Detonations :
gas, large-scale studies, 978
plane overdriven detonation wave, on transition to Chapman-Jouquet mode, USSR study, 2074
surface motion measurements, 5170
velocities of desensitized nitroglycerin, factors affecting, in simulated underground fractures, 13023
see also Nuclear explosions.

Detroit, Mich. :
and vicinity before 1900, annotated list of maps, 7192
area wage survey, 11347
communication skills center project, elementary-secondary program in compensatory education, 6877
community action program, effectiveness and administration, GAO report, 17061
concentrated employment program, effectiveness and administrative efficiency, GAO report, 17062
National Commission on Urban Problems, hearings, 1312
Neighborhood Youth Corps—
need for improvements in certain programs, GAO report, 1946
program, effectiveness and administrative efficiency, GAO report, 15780

Deuel Conference on Lipids, proceedings, 11540

Deteranopia, *see* Color blindness.

Deterium :
concentration in palladium, electrical resistivity as a function, 2264
gas, slightly ionized, experimental observation of oscillations described by continuity equations, 2250
Deuterium oxide, *see* Heavy water.

Deutman, George M., mineral industry of Nebraska, 2155

Deutsch, Lawrence J., threshold of stapedius reflex to selected acoustic stimuli in normal human ears, 8575

Deveikis, William D., effects of cone angle, base flare angle, and corner radius on Mach 3.0 aerodynamic characteristics of large-angle cones, 7254

Development (economics), *see* Economic development—Underdeveloped areas.

Development assistance, *see* Foreign aid.

Development digest (periodical), 2765

Development of analytical model of flash stage, 797

Development of inverter testing of high-temperature cesium-vapor thyatrons, 16142

Devices :
binder device releasably engaging aperture or notch of sheet, classification definitions, 7394
comparison of shear strength measurements with laboratory vane shear and fall-cone devices, 13245
for cooling human brain, USSR study, 12882
hermetically sealed, detecting leaks, 17225
severing by tearing or breaking classification definitions, 1288
superconducting, quarterly literature survey, 2290
wiring devices and supplies, 1960-67 shipments, patterns of industrial growth, 16642

Devils Postpile National Monument :
general information, 13185
lava columns (poster), 6091

DeVoe, James R., modern trends in activation analysis, 11521

Dew point, measurement of atmospheric dew point from aircraft, 1262

DeWitt, D. P., comprehensive program for compilation and analysis of thermal radiative properties data, 16138

DHIA, *see* Dairy herd improvement associations.

DI, *see* Disability insurance.

Diabetes :
control, public health program guide, 10299
diabetic diets, answers to questions that are often asked, 7413
Isles of Langerhans, Federal employee health series, 1335
literature index (periodical), 2766
cumulative edition, 13170
source book, 17334

Diabetic retinopathy, *see* Retinopathy.

Diagenesis, *see* Geology.

Diagnosis :
diagnostic data, Federal Health Programs Service, annual statistical summary, 14792
diagnostic radiology, status of research, 1200
idiopathic respiratory distress syndrome, proceedings of interdisciplinary conferences, 17277
intestinal parasites, laboratory procedures, 17341
laboratory, of tuberculosis in animals, recommended standard procedures, 13540
medical diagnostic equipment, information retrieval system, USSR study, 4440
mental retardation syndromes, visual diagnosis of facies and physical findings, atlas, 8836

- Diagnosis—Continued
 morphology of diagnostic stages of intestinal parasites of man, 16355
 Diagnostic X-ray, *see* X-rays.
 Diagrams, Skew T, Log P diagram, use in analysis and forecasting of weather, 16567
 Dials, and pointers, Federal item identification guide, 15506
 Dialysis:
 electro dialysis—
 hydrodynamic theory of desalination, 802
 membranes, electrical properties, 5763
 hydrodynamic studies for electro dialysis, 15856
 piezodialysis research, 14405
 symposium for nurses, 2414, 7415
 transport depletion evaluated with natural brackish water, 8835
 transport depletion processes, development, 9974
 Diamine oxidase, *see* Oxidases.
 Diamond, Arnold H., mortgage loan gross flows, 11266
 Diamond, Barbara K., relief, 13894
 Diamond, J. J., bibliography on high temperature chemistry and physics of materials, 6049, 10176, 16226
 Diamond, W. Gene, barite, 14522
 Diamond Jubilee Year of American Motion Picture, designate report, 8042
 Diatomite, minerals yearbook chapter, 13010, 14526
 Diatoms, factors for phytoplankton blooms and effects on dissolved oxygen in Duwamish River estuary, Seattle, Wash., 7061
 Diaz, Jose C. Suarez, *see* Suarez-Diaz, Jose C.
 DIP, *see* Domestic and International Bureau, Commerce Dept.
 Di Battista, John D., shock-wave pressure decay in polycarbonate targets impacted by cylindrical polycarbonate projectiles, 2228
 Diborane, oxygen difluoride-diborane rocket propellant, theoretical nonequilibrium performance, 4722
 Diek, Richard A., factors in selecting and applying commercial explosives and blasting agents, 4622
 Dickerson, R. W., jr., performance tests for plate heat exchangers used for ultra-high-temperature pasteurization processes, 6196
 Dickey, James, lecture, Dec. 4, 1967, 908
 Dickinson, N. Dak., flood plain information, 9673
 Dickinson, Tex.:
 Dickinson Bayou floods, how to avoid damage, 4206
 flood plain information, 4203
 Dickinson Bayou:
 flood plain information, 4203
 floods in Dickinson, Tex., how to avoid damage, 4206
 Dickson, John N., general instability of eccentrically stiffened cylindrical shells under axial compression and lateral pressure, 4687
 Dictionaries:
 communications-electronics terminology, 9001
 naval fighting ships, 16304
 navigation, 14730
see also Lexicography—Thesauruses.
 Die makers, employment outlook, 4519
 Diehl, James M., petroleum refineries in United States and Puerto Rico, 2169
 Dielectrics:
 clay suspensions, properties in frequency range from 50 HZ to 20 KHZ, 15650
 dielectric rod immersed in plasma, electromagnetic waves on, analysis, 1089
 displaced dielectric-dielectric boundary, admittance of parallel-plate aperture illuminating, 6004
 Dielectrics—Continued
 electrical materials capable of operating in 800° to 1600° F temperature range, 2193, 11402
 input admittance and reflection coefficient of circular aperture in ground plane covered by homogeneous dielectric or plasma slab, 1008
 Diener, R. G., relation to frequency and length of shaker stroke to mechanical harvesting of apples, 6355
 Dies (metal working):
 zinc-base die cast scrap, refining, using low-cost fluxes, 16106
 Diesel engines:
 diesel exhaust gas, continuous monitoring for carbon dioxide, carbon monoxide, oxygen, methane, and nitrogen oxides, 5961
 diesel servicing, suggested 2-year post high school curriculum, 16954
 Diesel fuel, *see* Fuel oil.
 Diesel mechanics, *see* Mechanics (persons).
 Diessler, Robert G., nonlinear decay of disturbance in unbounded viscous fluid, 2247
 Diet:
 Abernathy salmon diet, tests of vitamin supplements and formula changes, 10401
 Clinical Center dietetic manual for metabolic kitchen units, 14686
 diabetic diets, answers to questions that are often asked, 7413
 diet and arthritis, 11610
 dietary habits and related factors in FBM crew members, 925
 dietetics, Veterans Administration, career opportunities in VA hospitals nationwide, for dietitians, dietetic interns, dietetic assistants, 17435
 effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058
 food intake and nutritive value of diets of men, women, and children in United States, spring 1965, preliminary report, 6358
 hospital diets, technical manual, 5126
 nutrient-defined formula diets for aerospace metabolic experimentation, 87
see also Food.
 Diets, *see* Food.
 Dieterly, Duncan L., simplified approach to manpower management model, 10507
 Dietetic interns, *see* Dieticians.
 Dietetics, *see* Diet.
 Diethylcarbamazine, use in preventive chemotherapy of canine dirofilariasis, 105
 Dietitians:
 Air Force career opportunities, 7619
 employment outlook, 4498
 Veterans Administration hospital and clinics, nationwide, career information, 6337, 17435
 Differential equations, *see* Equations.
 Differential resistance of mice at various time levels to lethality of rattlesnake venom (*Crotalus atrox*), 84
 Differential thresholds for motion in periphery, 16145
 Differentials in health characteristics by color, 16375
 Diffraction:
 cylindrical hydroacoustical wave at junction of 2 semi-infinite plates, USSR study, 15952
 diffractometry with 55Fe and Beta excited X-ray sources, 7678
 slope diffraction analysis of TEM parallel-plate guide patterns, 10077
 unsteady surfaces and internal waves, USSR study, 7148

Diffraction—Continued

- X-ray—
 - diffraction and spectrographic equipment, radiation safety recommendations, 6193
 - powder patterns, 14665
 - see also* Electron diffraction.
- Diffractometers, diffractometry with 55Fe and Beta excited X-ray sources, final report, 7678
- Diffusion:
 - dislocation pipe, in silver single crystals, 14745
 - law for dispersion of hard particles in ice matrix that undergoes simple shear deformation, 3744
 - momentum between 2 supersonic airstreams in presence of shock waves, preliminary investigation, 4712
 - oxygen in tantalum, 5978
- Digestion, in vitro digestibility of alpine forages in Wyoming, 14288
- Digests, *see* Index digests—*also* names of departments, etc., issuing digests—*also* subjects.
- Diggs, Charles C., Jr., report of special fact-finding mission to Nigeria, 7954
- Digital computers, *see* Electronic computers.
- Digital indicator, for maximum windspeeds, 12702
- Digital temperature monitor for photorecording, 12699
- Digits, *see* Binary digits.
- Dille, J. Robert, drug and toxic hazards in general aviation, 7724
- Dillon, James L., data-reduction technique for determining rapidly rising heating rates to thermally thick walls, 13103
- Dimension stone, *see* Stone.
- Dimensional analysis, computer program for, 10116
- Dimethyl sulfoxide, radioprotection of primates with 2-(1-decylamino) ethanethio-sulfuric acid in, 13628
- Dimethylamine, radiation chemical reactions of olefins with methanethiol, etc., 5159
- Dimethylsiloxane:
 - monomolecular films of polydimethylsiloxanes on organic liquids, 7384
 - nonaqueous isolations of dimethylsiloxane-containing surfactants, wetting of low-energy surfaces, 10255
- Dimitroff, George, Air Force civil engineer, 2572
- Dimond, Nancy, Navy Supply Corps newsletter, 3183
- Dingfelder, Adele G., chronic conditions causing activity limitation, United States, 7433
- Dingman S. Lawrence, effects of thermal pollution on river ice conditions, 15649
- Dinosaur National Monument:
 - cynours, general information, 11288
 - general information, 1219
- Diodes:
 - experimental silicon carbide backward diode operable to 1000°K, development, 8642
 - microwave backward diodes in indium arsenide, fabrication and characteristics, 16164
 - microwave photodiodes, sensitivity as function of bias and geometry, 14754
 - 22-volt silicon voltage-regulator, effects of reactor radiation, 1135
 - waveguide tunnel-diode amplifier, design considerations, 6143
 - see also* Avalanche diodes.
- Dipycntria amatella, *see* Moths.
- Dip treatment in polyethylene glycol not effective in preventing surface checking, 12698
- DIPEC, *see* Defense Industrial Plant Equipment Center.

- Diphenyl, interrelations between transit temperatures, diphenyl pad placement, biphenyl content, and fruit condition, overseas shipping tests of California citrus on pallets and in containers, 16547
- Diplomacy, future of United States public diplomacy, report, 9345
- Diplomatic and consular service, *see* Foreign Service.
- Diplomatic and strategic impact of multiple warhead missiles, hearings, 12217
- Diplomatic list, 2770
- Diplomatic relations, *see* International relations.
- Dipole moments:
 - and calculated interaction energy in collisions of 2 hydrogen molecules, 17234
 - electro optical method for proving surface nature of rigid electric dipole of arbitrary colloidal particles of water, USSR study, 4435
- Dipole shutter, transparency for eye protection, 9099
- Diptera, *see* Flies—Mosquitoes.
- Direction cosine computational error, 8654
- Direction finding, *see* Radio direction finding.
- Directional reflectance of atmospheric paths of sight, 13305
- Directories:
 - Agricultural Research Service, 13583
 - Air Force, active duty promotion list, 5078
 - airport, airman's information manual, 2583, 6925, 16975
 - Army Materiel Command, installations and activities, 9027
 - Army museums, 7202
 - Army technical information holdings and services, 9060
 - Christmas tree directory, Oregon and Washington growers, wholesalers, and retailers, 14254
 - Congress of United States—
 - 91st Congress, 1st sess., 6555, 7819
 - pictorial, 91st Congress, 3928
 - consultants on migrant education, 12425
 - District Office Operations Bureau service area, Social Security Administration, 2160
 - USA field establishment, 4125, 16308
 - EDA, approval projects, 2787
 - education 1967-68—
 - education associations, 5538
 - higher education, 4166
 - educational 1968-69—
 - higher education, 1807
 - public school systems, 8165
 - educational information centers, 14131
 - Elementary and Secondary Education Bureau programs, 8164
 - foreign consular offices in United States, 8879
 - gerontology, 10192
 - Government periodicals and subscription publications, 3132
 - Government purchasing and sales, 4924
 - guidance and personnel services personnel in State Department of Education, 9650
 - Health, Education, and Welfare Department, field directory, 760
 - Indian Affairs Bureau, 2772
 - industry wage and union scale studies, 7185
 - international mail, 2773, 14770
 - labor organizations—
 - Korea, Republic, 7187
 - Malaysia, 7186
 - migrant health projects assisted by Public Health Service grants, 10300
 - membership committees, President's Committee on Employment of the Handicapped, 16333
 - military assistance program address directory, 553, 554, 1793, 4140-41, 5511, 14, 8141-42, 9528-29, 12372, 373, 14113-14, 15531, 16933-934

Directories—Continued

Missouri Basin Inter-Agency Committee, 1970 fiscal year, 16111
 national drug code directory, 17008
 National Institutes of Health—
 members of public advisory groups, councils, committees, boards, study sections, roster, 4786, 11542
 scientific personnel, 11543
 Negro colleges and universities, 4462
 OAR research directory, 7632
 personnel responsible for radiological health programs, 7416, 13338
 plastics, knowledgeable Government personnel, 15532
 post offices, 1305, 16326
 national ZIP code directory, 16330
 supplements, 1309, 4856, 8775
 prepaid dental care plans, 6059
 private programs for minority business enterprise, 13804
 providers of services under health insurance for the aged—
 extended care facilities, 1389
 home health agencies, 1389A
 hospitals, 1390
 independent laboratories, 1391
 public elementary and secondary schools in large school districts, with enrollment and instructional staff, by race, 15629
 qualified fallout shelter analyst, supplement, 261
 reclamation projects, divisions, units, operated by water users, 4907
 recreation areas, Federal, requiring entrance and user fees, 7393
 registered patent attorneys & agents, 11587
 research, development & demonstration projects supported by Urban Mass Transportation Administration, 17433
 safety and health laws and codes, 12961
 Securities and Exchange Commission, companies filing annual reports, 1374
 State merit systems, 758
 State, territorial and regional health authorities, 4876
 Surplus Property Utilization Office, HEW, regional representatives, 11256
 telephone—
 Agriculture Department, 7618, 13609
 Atomic Energy Commission, 3819, 13724
 Commerce Department, 9214
 Defense Department, 2759
 Health, Education, and Welfare Department, 11255
 House of Representatives, 7836
 Interior Department, 807
 NASA headquarters, 3153
 Senate, 7992
 State Department, International Development Agency, Arms Control and Disarmament Agency, 6274, 16462
 Transportation Department, 2762
 Treasury Department, 3494
 U.S. facilities providing cleft lip and cleft palate services, National Institute of Dental Research, 16260
 urban renewal, 1371, 8840
 urban transportation, research and planning projects, 14394
 urbanized area transportation planning programs, 13385
 VISTA fact book, 3577
 Wage and Hour and Public Contracts Divisions offices, 13532
 Directors, State surplus property, directory, 11256
 Dirksen, Everett M., Republican report, dedication, discipline, duty, 4010
 Dirofilaria immitis, *see* Dirofilariasis
 Dirofilariasis, preventive chemotherapy of canine, with diethylcarbamazine, 105

Disability, temporary, among workers and employees in different branches of industry, assessment and comparison of data, USSR study, 11325
 Disability evaluation:
 Air Force personnel for retention, retirement and separation, manual, 3678
 disability, work and income maintenance, prevalence of disability, 1393
 identifying disabled, concepts and methods in measurement of disability, 1392
 types of injuries, incidence and associated disability, July 1965–June 1967, U.S., 16376
 under social security, handbook for physicians, 7464, 10378
 Disability insurance:
 DI benefits in current payment status, 1968, present value, 16411
 disability incidence rates under OASDI system for disability onsets, 1386
 if you become disabled, social security benefits, 6237
 rights and responsibilities of recipients of social security disability insurance, 1397, 17383
 social security—
 benefit statistics, monthly, 3130, 16414
 calendar year benefit data, 6233
 disability program, answers for doctors, 17384
 rulings, 3442, 10373
 veterans, disability ratings in effect 20 or more years, protection—
 law, 12117
 reports, 5353, 9437
 what social security disability program means to you and your patients, answers for doctors, 1399
 your social security, 1402, 7462
 see also Old age, survivors, and disability insurance—Old age, survivors, disability, and health insurance.
 Disabled:
 acute conditions, incidence and associated disability, statistics, 11643
 age and disability, effect on access to public income-maintenance programs, 1394
 aid to disabled people, public assistance program, 3787, 6465
 children with learning disabilities act of 1969—
 hearing, 13924
 report, 15270
 chronic conditions causing activity limitation, U.S., July 1963–1965, statistics, 7433
 dependent care, income tax deduction, 4407
 disability—
 epidemiological factors, 7458
 incidence rates under OASDI system for disability onsets, 1386
 studies note, series B, 6230
 work and income maintenance, prevalence of disability, 1393
 examinations for temporary disability discussed, USSR study, 12919
 health insurance—
 coverage, 1395
 protection under social security, report, 5730
 identifying, concepts and methods in measurement of disability, 1392
 interviewing guides, 8179
 suggestions for using for specific disabilities, 17420
 medical care utilization, 6231
 public assistance, money payments to recipients, 2299
 return to work after severe disability, follow-up of 1963 Levenson and Green study sample, 6230
 selected impairments July 1963–June 1965, United States, 1352

Disabled—Continued

- social security—
 - benefits for persons disabled since childhood, 10374
 - disability program, answers for doctors, 17384
 - rights and benefits based on disability, regulations, 13441
- social security survey, reports, 1392-95, 6231, 7458
- types of injuries, incidence and associated disability, July 1965-June 1967, U.S., 16376
- what social security disability program means to you and your patients, answers for doctors, 13399
- workers, termination experience of benefits under OASDI, 7457
- see also* Disability insurance.—Handicapped—Pensions—Rehabilitation of the disabled—Veterans.
- Disabled American Veterans:
 - DAY and civil defense, 12032
 - legislative recommendations, 1969, hearings, 6731
 - report, 1968 convention, 5330
 - grassroots conferences, recommendations, 9660
 - programs for the disadvantaged, Education Office, 6886
- Disadvantaged children, *see* Children.
- Disadvantaged Children, National Advisory Council on Education of, *see* National Advisory Council on Education of Disadvantaged Children.
- Disadvantaged youth, *see* Youth.
- Disarmament:
 - antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV) ABM systems, strategic and foreign policy implications, hearings, 14031
 - arms control—
 - ABM systems, strategic and foreign policy implications, hearings, 8068, 10900, 14031
 - arms control and disarmament, bibliography (periodical), 2603
 - multiple warhead missiles, diplomatic and strategic impact, hearings, 12217
 - documents, 16580
- Disasters:
 - aircraft—
 - emergencies, human survival, 4678
 - emergency aircraft procedures over water, 3887
 - airport emergency operations planning, 622
 - California disaster relief act of 1969—
 - hearings, 7971, 9492
 - reports, 10740, 10761, 15279
 - Camille, food help, picture story, 13603
 - civil disorders in District of Columbia, administration of justice during emergency, 13322
 - compendium of State statutes on regulation of ambulance services, operation of emergency vehicles and Good Samaritan laws, 13341
 - disaster loan program, administration in connection with 1964 Alaska earthquake GAO report, 9873
 - disaster relief activities, HUD handbook, 15829
 - educational assistance in major disaster areas—
 - elementary and secondary education act amendments of 1969—
 - hearings, 5372, 6709, 15473
 - reports, 6695, 7891
 - 1968 annual report, 14127-128
 - emergency area designations, policies and procedures for recommending by Farmers Home Administration, GAO report, 7033

Disasters—Continued

- emergency broadcast system, basic plan, 260
- emergency construction, architectural design, Army technical manual, 5124
- emergency health series, 4877, 10301, 13341, 14788, 16341
- emergency health services digest, 16342
- emergency medical supplies, hospital reserve disaster inventory, 14789
- emergency operations guide for natural gas transmission and distribution industry, 1273
- Federal assistance to State and local governments, Office of Emergency Preparedness, GAO report, 12744
- Federal disaster act, activities, report, 6584
- FHA emergency credit revolving fund, temporary funding, report, 9412
- floods—
 - California, central and southern, 15799
 - how to avoid damage—
 - Canyon City and John Day, Oreg., 15659
 - Jacksonville, Fla., 10999
 - North Little Rock, Ark., 9706
 - Pullman, Wash., 11000
 - Renton, Wash., 11001
 - Westfield, Mass., 15660
 - Wolf River, Lake Poygan to Shawano, Wis., 15654
 - Little Calumet River and tributaries, Ill. and Ind., 15658
 - South Fork Eel River, Phillipsville to Garberville, 14150
- food management in national emergency, guide for food processors and wholesalers, 11876
- industrial civil defense management, preparation for wartime and peacetime disasters in industry, 1636
- loans, Federal Government's programs, hearing, 12288
- a Nation prepared, the vital factor in emergency health services and civil defense, 263
- national emergency standby regulations and instructions, FPM supplement, 2864
- natural—
 - survival preparedness for rural areas, programed instruction, 5667
 - what Department of Agriculture can do, 14999
- oil spillage and flood damage, California, hearings, 7970
- packaged disaster hospitals and hospital reserve inventories, 4888
- post attack resource management (PARM) prototype model, petroleum and natural gas submodel, technical report, 5560
- preparedness, general military training, 5079
- radiological emergency procedures for non-specialist, 5190
- relief, additional assistance for stricken areas, report, 10875
- role of medicine for emergency preparedness, 4877
- SBA loans to restore or replace businesses and homes, 1377
- see also* Relief work.

Disbursements, House of Representatives, detailed statement, 6718, 15319

Disbursing clerks, 3 and 2, Navy training course, 4829

Discharge:

- adverse action, law and regulations, FPM manual supplement, 2858

coefficients for thick plate orifices with approach flow perpendicular and inclined to orifice axis, 16199

measurements at gaging stations, 11249

- Discharge—Continued
plasma generation using large V-groove cathode discharge, 13085
stage-discharge characteristics of weir in sand channel steam, 12799
- Discharges (electrical), *see* Electrical discharges.
- Discounts:
farm credit banks and associations, annual report, 12577
Federal Reserve Discount Facility, public reaction to proposed changes in operation (remarks), 8245
Federal reserve discount mechanism, system proposals for change, 5403
see Banks and banking.
- Discrimination, *see* Race problems.
- Discrimination in employment:
civil rights act of 1964, title 7, facts, 11032
civil rights under Federal programs, analysis of title 6 of civil rights act of 1964, 269
employment of mature women, how you can help reduce barriers, 7563
equal employment opportunity—
challenge to business and government (remarks), 8539
developing human resources, AEC contractors' affirmative action programs, 15079
for all the people, by all people, report on State and local government employment, 12036
nondiscrimination in private and public employment, guide to Federal law, 13785
Reclamation Bureau, affirmative program of manpower utilization, 14832
report, 4226
selected references, 9736
equal employment opportunity program, Phoenix, Ariz., economic data, 11649
equal opportunity—
employment practices in Dept. of Interior (remarks), 8414
EAA employment, 4248
Federal employment, newsletter, 2502
Federal aid highway act of 1968, equal employment opportunity provisions, implementation—
hearings, 6799
print as Senate document, report, 8024
report, 6736
Federal employment, toward equal opportunity for all persons, 13796
finding jobs for Negroes, ideas for management, 11331
help wanted, or is it? job inequalities, 1844
high cost of sex discrimination in employment practices, 5566
HUD construction contractors and 6 craft unions, investigation in Chicago (statement), 15843
jobs and civil rights—
equal employment opportunity programs and activities of Federal Government, study, 7763
role of Federal Government in promoting equal opportunity in employment and training, 7762
middle-aged and older workers full employment act of 1968, bill text and section-by-section analysis, 497
sex discrimination in employment practices, report from conference, 11783
toward job equality for women, 15677
we hold these truths, bibliography, 13515
- Discrimination in housing:
equal opportunity, bibliography of research, 11268
your housing rights, live where you want to live, 15835
- Discrimination learning discrimination and classification, experiments, 8760
- Disks, *see* Disks.
- Discussion guide, Department of State Film Library, 1438
- Diseases:
acute conditions, incidence and associated disability statistics, 11613
chronic, conditions causing activity limitation, U.S., July 1963–June 1965, statistics, 7433
disease control programs (series), 4377, 1379
illness among Indians and Alaska natives, 7420
international classification, 8th revision, adapted for use in United States, 6178, 13339
kidney, prevention and control, guidelines for community programs of chronic disease control, 14794
see also Contagion and contagious diseases—Diseases of animals,—*also* names or classes of diseases.
- Diseases of animals:
animal morbidity report—
calendar year, 1968, 10458
monthly, 2591
see names of diseases or animals affected.
- Diseases of fish:
fish disease leaflet FDL-(series), 1409–11, 11685–687
freshwater fish diseases caused by *Aeromonas* and *Pseudomonas*, 1409
laboratories for fish disease research, 2450
lymphocystis disease of fish, 1411
parasites and diseases of warm-water fishes, 13465
see also names of diseases or fish affected.
- Diseases of plants:
control in home vegetable garden, 1505
cooperative muskmelon breeding program in Texas, 1935–67, new rating scales and index selection facilitate development of disease-resistant cultivars adapted to different geographical areas, 11887
plant disease reporter, 3255
saving forests and related wildlife resources from insects and diseases, 13599
tree diseases of eastern forests and farm woodlands, 6375
see also names of diseases or plants affected.
- Dishwashing, compound, machine, Federal standard, cancellation, 6981
- Disinfection and disinfectants, aerosol disinfection method in presence of viral infections, experimental substantiation of, USSR study, 863
see also Hydrazines.
- Disinfection, fruit and vegetables by gamma irradiation, 1606
- Disks:
centrifugally stabilized disk and shell structures, some equilibrium and free vibration problems associated with, 2185, 4660
- Dislocation of crystals, *see* Crystallography.
- Dismemberment insurance coverage under servicemen's group life insurance, 15381
- Disorders, *see* Riots.
- Disorientation:
physiologic mechanisms which produce it, 11901
vestibular, adaptation—
head position influence on habituation of vertical nystagmus, 209
modification of vestibular nystagmus and vertigo by visual stimulation, 11971
- Dispensers, dispensing, classification definitions, 1287
see also Cans.
- Dispersion:
atmospheric, estimates, workbook, 10303
axial-dispersion, constant-pattern, of ion-exchange and adsorption columns, 17098
chromium, feasibility of producing by ball-milling in hydrogen halides, 1127

- Dispersion—Continued
 dispersion-strengthening in copper-alumina and copper-yttria alloys, 11382
 laminar, in diverging channels and in concentric annuli, 9975
 strengthened copper, its preparation and properties, 5955
 strengthened nickel produced from ultra-fine comminuted powders, 16172
- Displacement:
 plane-stress analysis of edge-stiffened rectangular plate, subjected to boundary displacements, etc., errata, 2182
 use of small and large displacement data from essentially elastic buckling tests on columns and plates to correlate theory and experiment, 13673
- Displaced persons, uniform relocation assistance and land acquisition, hearings, 8074
- Display systems:
 aeronautical display and control problems, advanced electronic applications, study, 4670
 computer-display interface study, final report, 16583
 contact-analog display, in landing approaches with helicopter evaluation, 10146
 data-display programming, 994
 identification decoder and display for general-aviation aircraft, navigation aid, 17224
 information display concepts for landing of VTOL aircraft, comparison, 1086
 peripheral vision displays, 2201
 predictive, fundamental study, 4684
 radar, Eldophor, technical evaluation, 6314
 tactical information processing displays, implications of BESRL research, 13668
- Displays, *see* Exhibits.
- Disposal of refuse, *see* Refuse.
- Disputes, *see* Industrial arbitration.
- Dissertations, abstracts, Naval Postgraduate School, Monterey, Calif., 14737
- Dissociation:
 dissociation energy of gaseous titanium mononitride, 5999
 equilibrium dissociating air stagnation-point boundary layer with suction and injection, corrected copy, 2217
 vibration-dissociation coupling in fluid flow, simplified molecular model for studying, 17254
- Distance (psychology):
 responses to underwater distortions of visual stimuli, 927
- Distances:
 elevations and distances in United States, 7049
 interelectrode, influence on stability on straight pinch in quadruple high-frequency field, 6466
 microwave modulated, dual optical wavelength geodetic distance-measuring instrument, development, 12572
- Distillation:
 destructive, of scrap tires, 16102
 equipment, continuous counter-current ion exchange, removal of calcium to prevent scaling, errata, 14403
 processes—
 separatory, classification definitions, 2374
 thermolytic, classification definitions, 11575
 saline water, scale control, basic studies, 15858
 solar distillation development program of Spain, technical cooperation, 4403
 vacuum distillation of electrodeposited thorium-chromium and thorium-manganese alloys for preparation of thorium metal, 10066
 vacuum method, use in determination of oxygen in lithium, 8646
- Distillation apparatus, classification definitions, 2373
 distilled spirits, *see* Liquors.
- Distortion:
 flame straightening and its effect on base metal properties, 14854
 geometrical image aberrations in single- and double-mirror systems, mathematical determination, 1052
 sinusoidal, on flat plate at Mach 20 in helium, heat-transfer and pressure distributions, 1123
- Distribution (economies):
 distributive education, post secondary, suggested guide for administrators and teachers, 15638
 drug makers and distributors, Task Force on Prescription Drugs, background papers, 4350
 franchising, management development program, instructor's manual, 4923
 marketing, cost analysis, bibliography, 4924
 production problems, USSR study 7144
see also names of commodities.
- Distribution (statistics):
 ellipsoidal velocity distribution function, 5998
- Distribution system, *see* Military supplies.
- Distributors (apparatus):
 distribution equipment, Federal item identification guides for supply cataloging, supplements, 2846
- District Courts:
 and magistrates, proposed rules of evidence, preliminary draft, 6352
 contract claims against nonappropriated fund activities of U.S., jurisdiction—
 hearing, 9475
 report, 10865
 criminal justice act's operation, study, 10908
 District of Columbia, reorganization, hearings, 14023
 judges, additional, appoint—
 hearings, 12308
 report, 9441
 Maryland, Prince Georges County as suitable site for holding court, authorize, report, 16850
 South Carolina, nomination of Joseph O. Rogers, Jr., to be U.S. district attorney, hearing, 10909
 3 judge district court provision in expediting act, abolish—
 hearings, 4088
 report, 452
 United States, Federal offenders, 1967 data, 1495
- District of Columbia:
 administration of justice during and after civil disorders of Apr. 1968 and in riot-related prosecutions, 13322
 adoption of interstate compact on juveniles, reports, 12182, 15383
 appropriations, 1970—
 additional, 7851
 hearings, 16811
 supplemental, 12152
 area wage survey, 5906
 attachment, exemptions in case of non-residents, amend D.C. code, report, 12176
 automatic data processing activities, GAO report, 12749
 Bail Agency—
 act, amend—
 hearing, 5436
 report, 12255
 staff, increase—
 hearing, 5436
 report, 12255
 Bail Agency's authorization, increase, report, 12255
 banks, savings and loan associations, and other regulated lenders, installment loans, charge or deduct interest in advance—

District of Columbia—Continued

hearing, 12211
 report, 12183
 best bets for returning veterans in Washington, D.C. area, 5253, 9186
 budget, 1970—
 departmental edition, 3824
 document edition, 3957
 census of business, 1967 retail trade, area statistics, 11986
 chanceries, permit use of certain property, amend grandfather clause in act, report, 12175
 City Council members, nominations of
 Gilbert Rahn, Jr., Sterling Tucker, and Jerry A. Moore, Jr., 6737
 hearings, 5437
 code of laws—
 amend—
 hearing, 12211
 report, 12183
 1967 edition, supp., 5380
 commissioner, nomination of Walter E. Washington, hearings, 5437
 comparison of taxes with those of its environs and other metropolitan areas, GAO report, 5685
 construction authorized, 2689
 consumer protection program, Federal Trade Commission report, 6984
 continuous air monitoring projects, National Air Surveillance Networks, 1965, data tabulations and summaries, 16358, 16361
 counter-inaugural protest activities in Washington, D.C., response to, rights in concord, 13325
 courts, reorganization—
 hearings, 14023
 report, 15384
 crime and criminal procedure bill, suggestions of President's Commission on Crime, implementation, committee print, 6780
 crime, investigation, authorization, report, 4052
 current local civil service examinations covering metropolitan area, 278, 5256, 9188, 15138
 data tabulations and summaries, 1964 continuous air monitoring projects, National Air Surveillance Projects, 14797
 debt adjusting business, prohibit, report, 12256
 delinquent State taxes, authorize State actions to recover on reciprocal basis, report, 14009
 Department of Sanitary Engineering, incinerator project, special studies, 4899
 drug abuse in Washington area, hearings, 9454, 14022
 elderly Mexican-Americans, Federal programs and services, availability and usefulness, hearings, 12282
 election act, amend, report, 15411
 electric rate book, 4266
 employees, grant court leave when called as witnesses in certain judicial proceedings on behalf of State and local governments—
 hearing, 10799
 report, 13907
 employment of minors, amend act rel. to vacation work permits, report, 12184
 employment statistics, 1958-66, compilation, 12979
 Federal outlays, report of Federal Government's Impact by State and county, 9541, 9591
 food chain selling practices, economic report, 15739
 Georgetown architecture, waterfront, 2318
 Georgetown residential architecture, 16273

District of Columbia—Continued

Government—
 increasing responsibility and efficiency, message from the President, 7858
 organization, etc., investigation, authorization, report, 5349
 origin and form, 6782
 high-speed rail line, grade crossings, eliminate, hearings, 13939
 home rule, hearing, 9455
 hotels, motels, etc.—
 liability to guests, revise laws, report, 16803
 offenses against, revise laws, report, 16801
 infant education research project, preschool program in compensatory education, 6892
 institution, Forest Haven, voluntary admission of patients to provide care, education and treatment of mentally retarded persons, report, 7909
 job horizons for women and girls, conference report, 17443
 judge, circuit, nomination of Roger Robb, hearing, 12309
 judges retirement act of 1964, amend survivor annuity provisions, reports, 14010, 16802
 legislation, summary report, 5371
 mass transit bus system, public assistance or ownership, hearing, 9456
 metropolitan area pilot transportation study, 1722
 Metropolitan Police Department Band, include members of Fire Department, etc., report, 12178
 minimum wage act, amend, report, 12179
 National Commission on Urban Problems, hearings, 1312
 National Memorial Stadium Commission, abolish, report, 15410
 national parks of Washington, D.C., general information, 6086
 nonvoting delegate to House of Representatives, establish, report, 15411
 nutrition and human needs, hearings, 10917
 Old Stone House in Georgetown, D.C., its 18th century occupants and furnishings, 8732
 optometrists, examination and licensure, regulate, hearings, 9340
 optometry practice, regulate, hearings, 9340
 Pennsylvania Avenue, report of President's Temporary Commission on Pennsylvania Avenue, 13323
 podiatry, regulating practice, amend act, report, 12177
 police and firemen retirement benefits, equalize for totally disabled report, 12174
 police canine corps, expand, report, 7908
 policemen's and firemen's retirement and disability act, amend to make applicable to widows of retired members, report, 12173
 postal map, 7402
 Potomac River estuary movement of solute at low inflow conditions, 14337
 property, convey to Washington International School, Inc.—
 law, 15211
 report, 13999
 psychology, practice of, regulate, hearing, 15431
 public grounds, limit use for demonstration purposes, require posting of bond—
 hearing, 10804
 reports, 10711, 10719
 Public Service Commission, annual report, 4148
 radiation protection act, hearing, 12212
 religious service, prohibit annoyances, report, 12172

- District of Columbia—Continued
 revenue act of 1969—
 hearings, 15430
 report, 15407
 revenues, providing additional—
 hearings, 10774, 15430
 report, 15407
 statute of limitations, amend relative to
 civil actions arising from unsafe prop-
 erty improvements, report, 12180
 synagogue, lease to Jewish Historical So-
 ciety of Greater Washington—
 law, 16734
 reports, 13865, 13989
 traffic act of 1925, amend, report, 12181
 trust funds, legal investment, list, 4149,
 14116
 unemployment compensation act, exempt
 public international organizations, re-
 ports, 7910, 15352
 Washington inner city poverty survey,
 1743
 workmen's compensation act, work injuries
 under, 4193
see also Capital of United States.
- District of Columbia Commission on Govern-
 ment, establish, report, 15412
- District of Columbia Committee, House :
 calendar, 30308
 committee print, 5371
 hearings, 9340, 10774, 12211-212
 investigations and studies—
 expenses, report, 6673
 organization, etc., of D.C. Government,
 authorization, report, 5349
 reports, 7908-10, 12172-184, 13864-865,
 16801-803
- District of Columbia Committee on Adminis-
 tration of Justice under Emergency, Staff
 report submitted to the Committee, 13322
- District of Columbia Committee, senate :
 calendar, 3057
 committee print, 6780
 general information, 6782
 hearings, 5436-37, 6781, 9454-56, 10893,
 14022-23, 15430-431, 16882
 investigations and studies, crime in Dis-
 trict of Columbia, authorization, report,
 4052
 reports, 6737, 12255-257, 13989, 13999,
 14009-10, 15382-384, 15407, 15410-412
- District of Columbia Council, election of
 members, hearings, 9455
- District of Columbia Crime Commission, *see*
 President's Commission on Crime in Dis-
 trict of Columbia.
- Ditches, drainage, flood plain information,
 Dickinson, N. Dak., 9673
- Ditworth, George R. :
 environmental factors in coastal and estu-
 arine waters, bibliographic series, coast of
 Washington, 12657
 index to research on coastal and estuarine
 waters in United States, 12658
- Dittmer, Karl K., aerospace maintenance
 safety, 2557
- Diuresis, *see* Urine.
- Divers, responses to underwater distortions
 of visual stimuli, 927
- Dives, helium-oxygen saturation and excu-
 rsion dive to simulated depth of 900 feet,
 performance effects of increased ambient
 pressure, 8576
- Dividends, *see* Corporations—Life insurance.
- Diving :
 mammalian adaptations to diving, 8579
 saturation-excursion, biochemical cycle
 functions in lactic dehydrogenase, lac-
 tate, and pyruvate responses, 922
 scuba diving, USSR manual, 7160
- Divorce :
 statistical studies, bibliography, 16352
 statistics analysis, 16378
 United States and outlying areas, where
 to write, 1358
 vital statistics of U.S., 7434
- Dixon, Jay D., structural design data for
 unreinforced concrete tunnel linings, 16097
- Dixon entrance to Cape Spencer, coast pilot,
 supplement, 5277
- DLSC, *see* Defense Logistics Services Center.
- DMRE, *see* Medical Radiation Exposure
 Division.
- DMSO, *see* Dimethyl sulfoxide.
- DNA, *see* Deoxyribonucleic acid.
- Do you have what it takes to take the Coast
 Guard? 298
- Do you want a job? 17138
- Do your own thing and stay in school, 5536
- Dobbs, Carroll R., automated microanalysis
 of urinary ammonia, 3700
- Dobrovir, William A., justice in time of
 crisis, 13322
- Dobrowolski, Andrzej, conceptual study of
 rocket-scrumjet hybrid engines in a lifting
 reusable second stage, 10135
- Docks, floating, Federal item identification
 guides for supply cataloging, supplements,
 2850
- Doctors, *see* Physicians.
- Doctor's degrees, *see* Degrees (colleges, uni-
 versities, etc.)
- Doctrine for riverine operations, 8567
- Documentary films, *see* Motion pictures.
- Documentary information retrieval, USSR,
 11326
- Documentation :
 documentation and containerization in
 inter-American trade (remarks), 14209
 guidelines for new technology reporting,
 11400
- Documents, *see* Congressional documents—
 Government publications—Records—*also*
 subjects of documents.
- Documents Office, *see* Public Documents
 Division.
- DoD, *see* Defense Department.
- Dodge, Franklin T., flow-induced vibrations
 of flat plate suspended in narrow channel,
 1013
- Dogget, Robert V., Jr., effects of flexibility
 on lift and pitching moment characteristics
 of series of low-aspect-ratio wing-body
 combinations at transonic speeds, 1051
- Dogs :
 adaptation to 60 and 90 Hg CO₂ at total
 pressure of 260 mm. Hg, 3695
 behavior, psychotomimetic agents, com-
 parison of effects, USSR study, 4443
 District of Columbia canine corps, expand,
 report, 7908
 exposed to near-vacuum pressures, intra-
 ocular dynamics, 1549
 glucose tolerance in dogs, exposed to alti-
 tude and drug administration—
 amphetamines, 95
 diphenhydramine, 94
 meperidine, 96
 laboratory animal act, how it protects
 your dog, 11882
- Dogwood, flowering, growing, 5041
- Dohrn, Richard H., near visual acuity under
 low-level red and white light, 3715
- Doing business with Federal Government,
 17068
- Doing business with NATO, how U.S. com-
 panies can participate, 1612
- "... Doing what is right to do," 15893
- Dole, J. Hollis M., nomination, hearings, 8076
- Dolichopodidae, *see* Flies.
- Dollars :
 commemorating Dwight D. Eisenhower,
 reports, 16778, 16786, 16853
 Euro-dollar flows and efficiency of U.S.
 monetary policy (paper), 8240
 maintaining strength of United States dol-
 lars in strong free world economy, 1968
 progress report, 2526
 U.S. dollar at home and abroad (remarks),
 9825
- Dolores County, Colo., geologic investigations
 in Slick Rock district (series), 747

- Dolph, Robert E., important forest insects outbreaks in Oregon and Washington, 671
- Dolphins:
- Delphinus delphis, echolocation, USSR study, 15949
 - dermal ridges, body streamlining studies, USSR study, 12923
 - some distinctions of higher nervous activity in Black Sea dolphin (*Tursiops truncatus*), USSR study, 15927
- Domes (geology):
- face of Half Dome, Yosemite National Park, (poster), 6088
- Domestic and International Bureau, Commerce Dept. DIB computer news, 304
- Domestic Gold and Silver Operations Office, procedures and descriptions of forms, 13512
- Domestic relations courts, legal bibliography for family courts, 9172
- Domicile, comparison of classification of place of residence on death certificates and matching census records, 6208
- Dominguez, Eduardo Fernandez, see Fernandez-Dominguez, Eduardo.
- Dominica, see Windward Islands.
- Dominican Republic:
- agricultural commodities, agreements, 13480, 13488, 14908, 16480
 - background notes, 6262
 - economic trends and their implications for United States, 5789, 15884
 - economy, basic data, 5289
 - foreign trade regulations, 1660
 - labor law and practice, 2107
 - weather stations cooperative meteorological program, continuation, agreement, 10421
- Dona Ana County, N. Mex.:
- Bear Peak area, geology, 14331
 - Post Area, White Sands Missile Range, test wells, 14359
 - White Sands Missile Range, test wells, phase 1, 12778
- Donations, see Gifts.
- Donnell, John R., paleocene and lower eocene units in southern part of Piceance Creek basin, Colo., 8339
- Donnelly, Richard F.:
- analysis of sudden ionospheric disturbances associated with proton flare of—
0026 UT, July 7, 1966, 1834
1522 UT, 4217
 - contribution of X-ray and extreme ultraviolet radiation of solar flares to sudden frequency deviations, 9725
- Donnelly, Warren H., science, technology and public policy during 90th Congress 1st and 2d sessions, 15330
- Donner, Frederic G., nomination, hearings, 1737
- Donofan, Harry A., new approach to setting pay of Federal blue-collar workers, 8562
- Dooley, Henry E., relief, 6595, 9400, 12086
- Doordan, Martin L.:
- evaluation of on-premise and bake-off bakery department in retail foodstores, 5051
 - evaluation of selected wrapping films for fresh meat packaging, 7569
- Doors, and covers, access, Federal item identification guide, 15503
- Dorman, K. Robert, five-piece concrete sets for small main openings, progress report, 7219
- Dorsal column system of spinal cord, its anatomy, physiology, phylogeny and sensory function, updated review, 16253
- Dorth (destroyer DD-670):
- loan, extension, agreement with Argentina, 6301
- Dosimeters:
- silver phosphate glass microdosimeters, effects of laboratory reprocessing, 3703
- Dosimeters—Continued
- thermoluminescent, use for low dose measurements, 7682
- Dosimetry, gamma irradiation dosages for disinfection of fruit and vegetables, 1609
- Doss, Mildred A., index-catalogue of medical and veterinary zoology, 13, 7572-73
- Doten, George W., team interpretation procedures, selection of teammates and role assignment, 13664
- Doty, Gene C.:
- availability of ground water near Arena, Luna County, N. Mex., 12758
 - phase 1 test wells, White Sands Missile Range, Dona Ana County, N. Mex., 12778
 - rapid compression in saturation-exursion dives to 1000 feet, effect on pulmonary functions, 13004
 - test wells in Post Area, White Sands Missile Range, Dona Ana County, N. Mex., 14339
 - test wells SMR-4 and SMR-5, White Sands Missile Range, Dona Ana County, N. Mex., 8360
- Doucette, C. F., narcissus bulb fly, how to prevent its damage in home gardens, 5046
- Doud, Bobbie:
- education associations, directory, 5538
 - publications of Office of Education, 1816
- Dougherty, James H., Jr., effect on pulmonary functions of rapid compression in saturation-exursion dives to 1000 feet, 13004
- Doughman, C. L., inverter-converter automatic paralleling and protection, 5971.
- Douglas fir, see Fir.
- Douglas fir beetles, see Beetles.
- Douglas-fir tussock moth, see Tussock moths.
- Douglas, J. E., low herbicide concentration found in streamflow after grass cover is killed, 9863
- Domani, George A., oceanography in 90th Congress, 7969
- Dover, N. J., railroad accident, report, 11078
- Doves, see Mourning doves.
- Dow, Norris F., zero thermal expansion composites of high strength and stiffness, 8596
- Dowell, V. R., Jr., laboratory methods in anaerobic bacteriology, NCDC laboratory manual, 1239
- Down, see Feathers.
- Downey, C. E., soil survey Montgomery County, Ill., 14877
- Downey, J. J., medical news letter, 3169
- Downey, Maureen F., catalog of recent ophiroid type specimens in major collections in United States, 17285
- Downey, Robert M., pulp, paper, and board, quarterly industry report, 3349
- Downs, Eldon W., Air University review, 2578
- Downwash (aircraft):
- helicopter rotor downwash effects, 12680
 - tail downwash calculations for V/STOL aircraft in transition and cruise, 3784
- Doyle, D. V.:
- evaluating Appalachian woods for highway posts, 15765
 - properties of no. 2 dense kiln-dried southern pine dimension lumber, 687
- DR series, 11572
- Draft (military), see Conscription.
- Draftsmen:
- draftsman, entry, suggested guide for training course, 5537
 - employment outlook, 4560
 - pay, national survey, 4597
- Drag (aerodynamics):
- aerodynamic interference effects caused by parallel-staged simple aerodynamic configurations at Mach numbers 3 and 6, 14627

Drag (aerodynamics)—Continued
 Apollo command module with offset center-of-gravity positions at Mach numbers to 29, trim attitude, lift and drag, 11480
 bodies of revolution having minimum total drag in hypersonic flow, 16184
 determining total drag of pointed body of revolution in supersonic flow with turbulent boundary layer, method, 7253
 effect on base drag of recessing bases of conical afterbodies at subsonic and transonic speeds, 1064
 flow-field and drag characteristics of several boundary-layer tripping elements in hypersonic flow, 16192
 lift and drag for slender sharp-edge delta wings in ground proximity, prediction, 4704
 minimum induced drag, and corresponding loading, of nonplanar wings, numerical solution, 2197
 railroad automobile rack car aerodynamic drag, economics, 12625
 reduction due to gas injection through various discrete slots on 3-dimensional wing at Mach 2.01, 13101
 roughness drag due to 2-dimensional fabrication type surface roughness on ogive cylinder from force tests at transonic speeds, 4732
 subsonic sphere drag measurements at intermediate Reynolds numbers, 13050
 supersonic nacelle-wing interference, numerical method for evaluation and utilization, 7259
 Dragoo, Mary C., Fredella Village, Vicksburg, Miss., —
 Drain, Daniel L., airbreathing propulsion system testing using sweep frequency techniques, 17233
 Drainage:
 areas—
 annual peak discharges in Montana through Sept. 1968, 9882
 Illinois, flood flows, preliminary flood-frequency relations, 8344
 other than airfields, Army technical manual, 16599
 highway pavements, 8826
 Pa Mong, Nam Mun, and Nam Chi projects, lower Mekong River basin, investigations and requirements, report, 13397
 swamp chestnut oak seedlings, influence on growth, 9861
see also Mine drainage.
 Drains, scupper drain attachments to vessels in drydock maritime safety data, 14444
 Drama:
 and works prepared for oral delivery, catalog of copyright entries, 4116, 15486
 self-directive dramatization project, Joliet, Ill., elementary program in compensatory education, 6875
 Drawings:
 and specifications, avial design manual, change, 17298
 scientific and technical, catalog of copyright entries, 4114-15, 14065, 16904
 ship, structural symbols for use on, military standards, 16923
 Dreshfield, Robert L., sigma phase formation and its effect on stress-rupture properties of IN-100, 10122
 Drew County, Ark., community profile, 15558
 Drewes, Werner, woodcuts, catalogue, 14677
 Drews, Theodore H., higher education salaries, 12434
 Dreyfuss, Caril, Werner Drewes woodcuts, 14677
 Dribensky, Stella, relief, 4039
 Dried foods:
 nonenzymatic browning in model systems containing sucrose, 92

Dried foods—Continued
 sucrose hydrolysis at limited water concentration, 1543
see also names or classes of foods dried.
 Drift, deposition and erosion of snow by wind, 1573
 Drilling:
 drillability studies, laboratory percussive drilling, 16100
 exploratory, for ground water in western Sokoto Province, Nigeria, with particular reference to artesian aquifers in Formation, 12770
 occupation, analysis and description, USSR study, 17133
 rotary drilling and coring in permafrost, investigation at Fort Churchill, Manitoba, 3747
see also Core drilling—Rock drilling.
 Drilling machinery, *see* Drills (tools).
 Drills (tools):
 buoyancy stabilized hot point drill for glacier studies, 135
 energetics of percussive drills, 10054
 horizontal boring technology, underground power transmission installation machinery, state-of-art study, errata, 939
 rotary coring of Appalachian area oil-producing formations with mud or air, 7212
 tunnel boring machine props, stresses and displacements induced in rock, 979
 Drinking places:
 fair labor standards act, minimum wage, effects of \$1.00 minimum, 1968 report, economic effects, studies, 5003
 industry, manpower survey, 6904
 Drinking water, *see* Water.
 Dripping Spring Quartzite Formation, Gila County, Ariz., geology of uranium deposits, 5720
 Drive (electromechanical):
 arc-heated drivers up to 10 feet long, exploding wire initiation and electrical operation of 40-kV system, 8623
 Drivers, *see* Automobile drivers—Motor vehicle operators—Motortruck drivers—Taxicab drivers.
 Drivers (tools):
 elongated-member-driving apparatus, classification definitions, 11576
 Driving, *see* Automobile driving.
 Driving systems, *see* Control systems.
 Dropouts, *see* School attendance.
 Drops, on minimizing wake of droplets, 8603
 Droughts:
 differential response of slash pine families, 9859
 drought index for forest fire control, 8310
 1962-66 drought on Long Island, N.Y., hydrologic effects, 7062
 Drug Abuse Control Bureau, bulletin, 2621
 Drug addiction, *see* Narcotic habit.
 Drug stores, *see* Stores.
 Druggists, *see* Pharmacists.
 Drugs:
 abuse, education workshop for teachers, how to plan, 16347
 abuse in Washington area, hearings, 9454, 14022
 adverse and toxic effects, toxicity bibliography, 3502
 anti-depressant drug studies—
 1955-1966, bibliography and selected abstracts, 8797
 psychopharmacology bulletin, 14801
 code of Federal regulations, 8223, 9803, 11119, 12631
 combating drug abuse, proposals, message from the President, 12150
 commercial import detentions, monthly report, 2678
 comprehensive narcotic addiction and drug abuse care and control act of 1969, hearings, 16890

Drugs—Continued

cost standards of drugs for which payments are made under social security amendments of 1967, findings of Health, Education, and Welfare Dept., 3967
 coverage of drugs under medicare, Task Force on Prescription Drugs, interim report, 4381
 distribution in hospitals, 13347
 don't guess about drugs when you can have the facts, current information-education materials available, 16340
 drug and toxic hazards in general aviation, 7724
 drug combinations, antibiotics, competitive problems in drug industry, hearings, 10920
 drug efficacy study, report, 11398
 errata, 14565
 drug industry, competitive problems, hearings, 1745, 8095, 10920
 drug industry, small business problems, report, 3978
 drug makers and distributors, Task Force on Prescription Drugs, background papers, 4380
 drugs and narcotics, publications list, 7411
 drugs and you, general information, 10535
 FDA's efficacy review, Washington briefing, 5662
 Federal narcotic and dangerous drug laws handbook, 2181
 food, drug, and cosmetic act—
 as amended—
 laws, compilation, 5458
 text, 6994
 enforcement regulations, 1902
 indolylalkylamines as radioprotectants, 3713
 informed consent for trial of new drugs, 5659
 insurance design, approaches to Task Force on Prescription Drugs, background papers, 8389
 national drug code directory, 17008
 pharmaceutical industry, competition, present status, hearings, 1745, 8095, 10920
 pharmaceutical preparations, except biologicals, current industrial reports, 3853
 pharmacological drugs which increase resistance to hypoxia, USSR study, 8510
 prescription, medical insurance sample, current medicare survey reports, 10367, 11666
 prescriptions, coverage under title 18, social security act, findings of Health, Education, and Welfare Dept., 3966
 radioprotective, 2-(1-decylamino) ethanethiosulfuric acid, pharmacodynamics, 15020
 reducing costs of hospitalization, medical services and drugs provided to Federal employees for job-related disabilities, GAO report, 9877
 respect for drugs, community service program, 5966
 legend, FDA manual for pharmacists, 8268
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant in rodents and primates, 3716
 stored for national emergencies, transfer to another Federal agency before shelf life expires, report, 15402
 Task Force on Prescription Drugs, background papers—
 current American and foreign programs, 1891
 drug prescribers, 1982
 drug users, 1983
 technical publications, July-Dec. 1968, FDA, 14247
 things could be worse, we could be hung up on drugs! 9026

Drugs—Continued

wholesaling, facts about, marketing report, 9094
see also Medicine—Narcotics—Tranquilizing drugs—*also* names of drugs.
 Drugs, Prescription, Task Force on, *see* Task Force on Prescription Drugs.
 Drum Mountains, gold-bearing, jasperoid, Juab and Millard counties, Utah, 9893
 Drums, Pa., Keystone Job Corps Center for Women, effectiveness and administration, 11212
 Drums (containers):
 steel shipping, current industrial reports, 2732, 3856, 12006
 Drunkenness, animal intoxication, USSR studies, 2053
 Dry Bean Research Conference, meeting, report, 8947
 Dry Creek:
 flood plain information, 9675, 10997
 floods in Pueblo, Colo., how to avoid damage, 9708
 Drydocks:
 concrete cores from Dry Dock No. 2, Charleston Naval Shipyard, S.C., 11014
 facilities, Navy design manual, 16291
 scupper drain attachments to vessels in drydock, maritime safety data, 14444
 Drying:
 air, of fence posts, chemical control of bostrichidae, 12709
 crop drying in U.S., 1966, quantity, equipment, fuel, 10499
 entrainment drying and carbonization of wood waste, 13026
 equipment, Federal item identification guides for supply cataloging, supplements, 2845
 lumber, combined effects of drying, surfacing, and trimming on grade and volume, 1927
 shrinkage and footage loss in 4/4-inch hard maple lumber, 4324
 see also names of substances dried.
 Drysdale, Taylor, improvement of procurement, utilization and retention of high quality scientific and technical officers, 79
 DSA, *see* Defense Supply Agency.
 DSASC, *see* Defense Supply Agency Administrative Support Center.
 Duane, David B., radioisotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
 DuBridge, Lee A., nomination, hearing, 5460
 Duckett, Roy J., free-stream electron concentration in arc-heated wind tunnel and correlation of Langmuir probe and microwave interferometer measurements, 17245
 Ducks:
 hunting, possession, transportation, and/or importation, 1969-70, in United States, etc., Federal regulations governing, 14884
 raising, 11866
 sea ducks, hunting, possession, transportation, importation, 1969-70, Federal regulations governing, 13461
 stamp data, information for collectors and conservationists, 16442
 see also Mallards—Wood ducks.
 Duckworth, W. Donald, Bredin-Archibald-Smithsonian biological survey of Dominica, West Indian Stenomidae, 13418
 Ductility:
 ductilizing of group via elements by rhodium and other solutes, review, 2254
 notch—
 and tensile property of PM-2A reactor pressure vessel, evaluation, 6140
 brittleness after prestraining, 4922
 properties of SM-1A reactor pressure vessel following in-place annealing operation, 1260
 reinforced concrete beams, effect of confining reinforcement, 8185

- Ducts:
magnetospheric duct propagation research using, Alouette-2 topside-sounder observations, 14612
noise attenuation prediction in acoustically treated ducts for turbofan engines, studies, 14570
- Dudley Diggs House, dependencies (out-buildings), history, etc., 13184
- Duff, ponderosa pine, fire prescription for consuming, 1923
- Duffy, R. J., design and component test of engine air inlet particle separator for CV-7A aircraft, 180
- Dug Foo Wong, *see* Wong, Dug Foo.
- Duga, John V., Jr., computer plotting description of ion-molecule collision with long-lived capture complexes, 14645
- Duggan, Jerome, L., proceedings of conference on use of small accelerators for teaching and research, etc., 3796
- Dugout Project, *see* Project Dugout (Plover-share program).
- Duke, Noriko S., relief, 6747, 9280, 12087
- Dukler, A. E., development of mathematical model and computer program for optimization of VTE saline water plants, 8417
- Dulaney, Jean B., FAR horizons, 2817
- Dulles International Airport:
air traffic forecast, 1968-74 fiscal years, 4249
aviation forecasts for 1969-80, 12601
general information, 14182
National Capital transit development program, extend rapid rail line between airport and main metro system, report, 12257
- Duncan, Basil R., relief, 4036, 6608, 9232
- Duncan, Horace J., propagation of southern red oak and water oak by rooted cuttings, 9862
- Duncan Reservoir, special operating program for Canadian storage, Columbia River Basin, agreement, 7523
- Duncombe, Juliana S., annular solar eclipse of Mar. 18, 1969, 13211
- Dunes:
Death Valley National Monument (poster), 6087
ground water in Clatsop County sand dunes, availability, 9899
- Dunham, Ralph E.:
summer enrollment in higher education, 10989
upper division enrollment, fall 1967, higher education, 12435
- Dunlap, Donald V., Atlantic City, N.J., climatic summaries of resort areas, 11020
- Dunmire, Daniel E., shrinkage and footage loss from drying 4/4-inch hard maple lumber, 4324
- Dunne, Robert E., staff study of major riots and civil disorders, 4082
- Dunne, Thomas P.:
addresses, etc.—
Sept. 11, 1969, 13802
Oct. 13, 1969, 16944
- Duntley, S. Q.:
directional reflectance of atmospheric paths of sight, 13306
experiments on visual acuity, and visibility of markings on ground in long-duration earth-orbital space flight, 2183
- Duplicating processes, manifolding, 4845
- Dupree, Harry K., influence of corn oil and beef tallow on growth of channel catfish, 10401
- Durable goods, *see* Commercial products.
- Durda, Adela, *see* Kaczmarek, Adela.
- Durfee, Robert L., flammability of skin and hair in oxygen-enriched atmospheres, 10525
- Durham, David L., geology of Tierra Ronda Mountain and Bradley quadrangles, Monterey and San Luis Obispo Counties, Calif., 732
- Durham, N.C., 549 East Main Street tribute to partnership and involvement (address), 15826
- Durum wheat, *see* Wheat.
- Dust:
miscellaneous dusts, explosibility, 2175
superconductive dust cores for inductive elements, 7295
see also Coal dust—Pneumoconiosis.
- Dustin, Miles O., design and performance of 2 integrated circuits for fluidic-controlled pneumatic stepping-motor system, 7301
- Duties, *see* Tariff—*also* names or classes of articles imported.
- Dutton, James J., reactor and fuel-processing technology, quarterly technical progress review, 3364
- Duty, honor, country (character guidance discussion), 7658, 9037
- Duvall, V. L., selected bibliography, 1962-67, on southern range management, 8316
- Duvall, Wilbur L., stresses and displacements induced in rock by tunnel boring machine props, 979
- Duwamish River estuary, Seattle, Wash., factors for phytoplankton blooms and effects on dissolved oxygen in, 7061
- Dwarf mistletoe, *see* Mistletoe.
- Dwiggins, C. W., separation and characterization of metallo-organic materials in petroleum, 13388
- Dwight D. Eisenhower Dam, name, report, 10870
- Dyads, relation between effectiveness ratings and selected characteristics of rating dyads, 6402
- Dyer, Lionel R., speech, Oct. 3, 1968, 6997
- Dyersburg, Tenn.:
flood plain information, 12457
floods, how to avoid damage, 12497
- Dyes and dyeing:
dye dispersal study in DaNang Bay, Republic of Vietnam, oceanographic cruise summary, 13229
dye lasers as high power pulsed, visible light sources, program to evaluate, 11418
investigation of structure of intraphage DNA with use of dyes, USSR study, 15937
marking corn earworm moths, for release studies, rapid method, 1497
natural dyes in United States, 1204
synthetic dyes, production and sales, 1467, 17416
trade and tariff information, summaries, 6316
- Dyke, James:
foreign trade regulations of—
Argentina, 9207
Colombia, 16706
- Dymsza, Henry A., nutrient-defined formula diets for aerospace metabolic experimentation, 87
- Dynamic stability, *see* Stability of aircraft.
- Dynamic strain aging in carbide strengthened molybdenum alloys, 13130
- Dynamics:
analysis of permanent magnet stepping motors, 7271
complex dynamical systems with constraints, new matrix theorem and its application for establishing coordinates, 16206
dynamic performance—
analysis of fuel-control valve for use in airbreathing engine research, 13112
limitations of fast response (150 to 200Hz) electrohydraulic servos, analysis, 14633
dynamic response of—
flexible rotor blade to concentrated force moving from tip to root, 16167

Dynamics—Continued

- dynamic response of—continued
 - Mach 2.5 axisymmetric inlet with engine or cold pipe and utilizing 60 percent supersonic internal area contraction, 13116
 - structural elements exposed to sonic booms, 10070
- dynamic tear test definition of temperature transition from linear elastic to gross strain fracture conditions, 6147
- flight dynamics of—
 - general parachute-payload system, mathematical model for calculating, 2227
 - turbojet aircraft, 16209
- gaseous flow system, measured effects on acoustic mode combustion instability, 7265
- intraocular, of dogs exposed to near-vacuum pressures, 1549
- low-frequency flow dynamics of 2 nuclear-rocket cold-flow engine systems, analog computer study, 13104
- mechanisms with elastic couplings, 14650
- molecular dynamics and structure of solids, 10175
- of spatial motion of aircraft, 8658
- pilot dynamics with dynamics with visual and motion in-puts, experiments and model, 10076
- resonant mode analysis of the Fitzgerald apparatus, 7277
- rigid rotor dynamics, 16125
- small perturbation, of neuromuscular system in tracking tasks, 2192
- space vehicle flight control systems, analysis and design, 10068
- standard method for 1-inch dynamic tear test, 16314
- supersonic inlet, mathematical analysis, 2263
- surface vehicle dynamics, experimental verification, 16126
- terrestrial impact structures, bibliography, 9890
- vibrational dynamical problem and geopotential, 8655
- water rejection from matrix type of hydrogen-oxygen fuel cell, experimental investigation, 2255
- see also Aerodynamics—Hydrodynamics—Magnetohydrodynamics.
- Dynamics of technology and society, no compromise with ignorance, 16955
- Dynamometers, industrial plant equipment handbook, 527
- Dysentery :
 - etiological structure, shigellae changes in countries of Central and Southern America, Africa, and Asia, characteristics of geographic distribution, USSR study, 12926
 - USSR etiological structure, 1950-65 changes, peculiarities of geographical distribution of shigellae, 8525

E

- E.S.S.A., see Environmental Science Services Administration.
- Eagle (periodical), 2775
- Eagle A-1 quadrangle, Alaska, reconnaissance geology, 9888
- Eagle A-2 quadrangle, Alaska, reconnaissance geology, 9888
- Eagle Cap Wilderness, Wallowa-Whitman, National Forest, general information, 12677
- Eagle Lake, southeastern Alaska, geologic reconnaissance of possible power sites, 5697
- Eagle Lake Timber Co., relief, 7864
- Eagle quadrangle, Alaska, asbestos occurrence, 4358

- Eagles, bald eagle, general information, 7468
- Ear :
 - examination, and hearing status, adults, United States, 1960-62, findings, 1354
 - normal human, threshold of stapedius reflex to selected acoustic stimuli, 8575
- Ear phones, see Headsets.
- Earhart, Amelia, honor the memory, report, 8040
- Early, William N., United States Air Force JAG law review, 3016
- Earmuffs, perforated, to provide sound attenuation, 1548
- Earnings, see Salaries—Wages.
- Earphones, see Headsets.
- Earth :
 - climates of the world, 11019
 - close-in ground motion and earth stress, 3806
 - crust, gold content, estimates, 741
 - electric properties, at EMP simulator site, Fort Huachuca, Ariz., 15796
 - exploring world around us, 12431
 - manned orbiting missions, biotechnology laboratory, study—
 - results, recommendations, and requirements, 14580
 - summary of individual experiments, requirements, 14581
 - moon orbits, comparison with class of rotating Kepler orbits, 1120
 - motion of artificial satellites in gravitational field, 13145
 - motive forces in development of earth and planets, 11504
 - orbital missions, effects of cloud cover on selection of recovery sites, 7288
 - photographs from Gemini missions, 11427
 - radio bridge, Earth-Moon-Earth, 4759
 - resources, cooperative research in remote sensing for earth surveys, agreement with—
 - Brazil, 4972
 - Mexico, 7497
 - SAO Standard Earth (C-5), GEOS I tracking station positions, 11435
 - snow on ground, classification outline, 14290
 - standard time zone chart of the world, 13265
 - water of the world, 4368
 - water planet, general information, 17306
 - world, Navy marine climatic atlas, 11559
 - see also Satellites.
- Earth movements, see Subsidence (earth movements).
- Earth orbits, see Orbits.
- Earth resources satellite system, 5382
- Earth sciences, see Science.
- Earth Sciences Laboratory, ESSA technical report, ERL-ESL series, 5577, 14164
- Earthquakes :
 - Alaska, 1964—
 - administration of disaster loan program, GAO report, 9873
 - effects on communities (series), 14346
 - effects on shore processes and beach morphology, 1967
 - effects on various communities, 14346
 - erosion and deposition on raised beach, Montague Island, 5718
 - Prince William Sound, aftershocks, research studies—
 - and interpretive results, geodesy and photogrammetry, 6528
 - seismology, and marine geology, 10634
 - regional effects (series), 1967, 5718
 - damage due to Niigata, Japan, earthquake, report, 15070
 - general information, 12563
 - investigation, in U.S., 6529
 - northeastern Indian Ocean, 10216
 - resistant design of nuclear power plants, considerations, 5156
 - safety and survival, 5724

- Earthquakes—Continued
seismic intensity data used to predict effects in various geologic settings, 14333
tsunami of Alaskan earthquake, 1964, engineering evaluation, 4198
United States, 6533, 7788
- Earthwork and structures:
desiccated clays, controlling expansion during construction, 14829
foundations of structures in cold regions, 15040
nuclear construction engineering technology, 7689
underground emplacement of nuclear explosives, construction techniques and costs, Plowshare program, 13708
- Earthworms, *see* Bollworms.
- Eaton, L., railroad accident, report, 9792
- East (Far East):
agricultural data book, 15623
agricultural situation—
1968 midyear review, 573
1968 review and 1969 outlook, 8160
1969 midyear review, 16950
Australian trade with Far East countries, 9643
chigger mite, special study, 1592
Far East Symposium on Nutrition, papers, 1192
foreign relations of U.S. diplomatic papers—
departmental edition, 11704, 13473
document edition, 10690, 12133
market profiles, 10651
mineral industry, minerals yearbook chapter, 2161, 17188
oriental arts, Islam and the East, 11198
transportation and traffic management activities by Defense Department, overall observations, GAO report, 8334
- East (Middle East):
accessions list, Library of Congress American Libraries Book Procurement Center, Cairo, 3118
discussion guide issues, 1447, 4969
events, select chronology, 1916-69, and background documents, 9461
Fedayeen and Middle East crisis, 10521
issues in United States foreign policy, 1446
Near and Middle Eastern series, 1446-47, 4969, 14906
oriental arts, Islam and the East, 11198
pocket guide, 16579
Soviet penetration into Middle East, 1551
tricontinental hub, bibliographic survey, 5120
- East (Near East):
agricultural production, 1959-68, indices, 10969
continuing Near East crisis, background information, 3989
foreign relations of U.S., diplomatic papers—
departmental edition, 10412
document edition, 9248
market profiles, 10648
Near and Middle Eastern series, 1446-47, 4969
Near East and South Asia, economic growth trends, 12858
oriental arts, Islam and the East, 11198
translations, 3512
United States—
foreign aid, 1970 proposed program, 14129
policy in crisis, 14906
- East (U.S.):
cost of transporting freight, 12865
east coast, Loran-C table, pair S87-X, 14733
fresh fruit and vegetable unloads in eastern cities, by commodities, States, etc., 6807
Thanksgiving 1966 air pollution episode, 1311
- East Africa, *see* Africa.
East Asia, *see* Asia.
East Baton Rouge Parish, La., soil survey report, 6242
East Central States, *see* Central States.
East China Sea, temperature, salinity, and density, 10215
East Dillard, Ohio, railroad accident, report, 11090
East Europe, *see* Europe.
East Germany, *see* Germany.
East Lake, Oreg., hydrology, 1975
East North Central States, *see* Central States.
East St. Louis, Ill.:
National Commission on Urban Problems, hearings, 1312
nutrition and human needs, hearings, 14058
East Siberian Sea, summer oceanographic features, 13267
East South Central States, *see* Central States.
East Spartanburg, S.C., railroad accident, report, 11084
East Tintic district, Utah, Burgin mine, micromineralogy of galena ores, 5722
East-West Center, *see* Cultural and Technical Interchange between East and West Center.
East-West trade, *see* Commerce.
Eastern African Conference on Nutrition and Child Feeding, Nairobi, Kenya, proceedings, 17121
Eastern Airlines, new terminal facility dedication (remarks), 16672
Eastern Carriers' Conference Committee, emergency board report, 8178
Eastern Europe, *see* Europe.
Eastern Fish Disease Laboratory, Leetown, W. Va., fish disease research, 2180
Eastern States, *see* East (U.S.).
Eastern Test Range, investigation of turbulent wind field below 150M altitude, 14582
Eastern Utilization Research and Development Division:
laboratories and functions, 3628
publications and patents, list, 6364, 14980
Eastern, Western and Southeastern Carriers' Conference Committees, emergency board report, 8177
Easton, R. L., continuously visible satellite constellations, 13298
Easton, Pa., area wage survey, 4592, 17154
Eastport, Me. to Montauk Point, N.Y., coastal warning facilities chart, 14964
Eastport to Cape Cod, coast pilot, supplement, 5276
Eat well for you and your baby who is on the way, 16671
Eating places, *see* Restaurants, lunch rooms, etc.
Eaves, Elsie, how many costs of housing fit together, 74506
Eber, L. E., monthly mean charts sea surface temperature North Pacific Ocean, 5297
ECA, *see* United Nations Economic Commission for Africa.
ECG, *see* Electrocardiograms.
Echinoids, *see* Sea urchins.
Echo ranging equipment, *see* Sonar.
Echo sounders, used in measuring distribution of reservoir fishes, 7475
Echo sounding, precise echo soundings in deep water, 6912
Echolocation (physiology) (Delphinus delphis),
in common dolphin (Delphinus delphis), USSR study, 15949
motion of bats toward plane targets and nature of changes of echolocative signals in process of target selection and recognition, 15902
Fekstein Otto education, employment, and Negro equality, seminar on manpower policy and program, 883

Eclipses:
 annular solar eclipse of Mar. 18, 1969, 13211
 determining physical properties of Martian atmosphere by solar occultation from artificial satellite, 17223
 1962 total solar eclipse, spectrophotometric standards, 1536
 Eclogites, partially melted kyanite eclogite from Roberts Victor Mine, South Africa, 7454
 Ecology:
 Aldabra Atoll, Indian Ocean, 1380
 autecological characteristics of elk sedge, 15760
 charge to the human ecology symposium (address), 2411
 ecological effects of discharge of waste heat into rivers, lakes, etc., hearings, 501, 1744
 print additional copies, report, 9421
 forest ecosystems, nitrogen enrichment by red alder, 12714
 human, symposium proceedings, 11630
 plant, of arid basin Tres Alamos-Redington area, southeastern Arizona, 4361
 plants, highway research and development news, 8825, 13386
 range, and management, 14278
 terrestrial—
 arthropods on Tokelan Atolls, 8851
 biological and medical applications, 9085
see also Radioecology.
 ECOM, *see* Army Electronics Command.
 Econometric model for predicting water-oriented outdoor recreation demand, 12409
 Economic assistance, *see* Foreign aid.
 Economic Commission for Africa, *see* United Nations Economic Commission for Africa.
 Economic Committee, Spanish-United States, *see* Spanish-United States Economic Committee.
 Economic concentration, hearings, 485, 8079
 Economic conditions:
 Alaska, semi-autonomous, aggregate income model, 14193
 assessing the economic scene, 15994
 Bermuda Islands, basic data, 6540
 census and the economy (address), 7795
 deflating an expanding economy (address), 7796
 domestic economy (remarks), 7552
 economic analysis of Alaska, subregional, 14199
 economic data for equal employment opportunity program, Phoenix, Ariz., 11649
 economic data for less developed countries, 12862
 economic indicators (periodical), 2785
 economic indicators, Alaska, 14198
 economic indicators, selected (Defense Dept. periodical), 3424
 economic issues for the future, seminar, 882
 economic trends and their implications for United States, ET series, 814-818, 2024-44, 2786, 5782
 employee compensation, 1966, in private nonfarm economy, 14458
 equal economic opportunities for Negroes in rural and non-metropolitan areas of Alabama, report, 270
 evaluating economic structure of a rural area, demonstration of an input-output analysis, 12407
 evaluation, southwestern North Carolina rural renewal area, 569
 foreign economic trends and their implications for United States, ET series, 5783-99, 7101-16, 8459-82, 9987-98, 11301-307, 12843-852, 14418-423, 15876-887, 17105-120
 household income and selected social and economic characteristics of households, 10606, 16668

Economic conditions—Continued
 Impact of—
 air pollution controls on secondary non-ferrous metals industry, 9093
 high interest rates, hearings, 8052
 tax-exempt foundations and charitable trusts, 13942
 influence on children, research programs, studies in progress, 6511, 15124
 Murmansk Oblast national economy surveyed, USSR study, 5828
 Ozark gateway district, preliminary economic analysis, 14124
 preliminary post-mortem on 1969 economic projections (remarks), 17001
 report of the President to Congress—
 departmental edition, 4858
 document edition, 3962
 hearings, 3938, 6565, 7833
 report, 6700
 socio-economic factors affecting participation in water oriented outdoor recreation, 8156
 socio-economic profile of 1965 farm wage force, 8153
 Soviet economy, recent developments, 2122
 Taiwan, basic data, 9200
 trends, metropolitan areas, 3860
 U.S. economy, recent trends and outlook (remarks), 3908
 USSR economy and industry, reports on economy, finance, and planning at Republic Supreme Soviet sessions, 5819
 USSR, structure of national economy, study, 15922
see also Negroes—*also* names of countries, States, etc.
 Economic cooperation, *see* Foreign aid.
 Economic development:
 Alaska, transportation and economic development, policy analysis, 12612
 American Indians and Eskimos, 1930-1967, bibliography, 8406
 area overall economic development programs, guide, 15535
 Central American economic integration, U.S. assistance to regional organizations, briefing papers, 12220
 communication and mountain development, summary report of two east Kentucky studies, 9531
 communities (remarks), 12395
 districts authorized under provisions of Public works and economic development act of 1965, status, 14117
 districts, map, 6845, 15533
 economic development (periodical), 2784
 Economic Development Administration, approved projects, directory, 2787
 economic growth trends—
 Africa, 12855
 East Asia, 12856
 Latin America, 12857
 Near East and South Asia, 12858
 EDA planning grants, 12391, 16941
 Federal Advisory Council on Regional Economic Development, initial meeting, 1652
 Federal-State partnership for economic growth, Four Corners Regional Commission, 9870
 inner city goals (address), 12387
 Latin American economic integration, implications for U.S. business, 6543
 link between reserve creation and assistance to developing countries—
 hearing, 10689
 proposals, 12131
 making federalism work, study of program coordination at community level, 10961
 minority groups, economic advancement in U.S. (remarks), 14227
 planning, New York, status report, on role of economic research, 12394

Economic development—Continued
 potential development of central Appalachia, preliminary analysis, 13650
 Public works and economic development act of 1965, maximum grant rates in qualified areas, 5517
 qualified areas, for full financial assistance for grants only, map, 560
 role of social security, 4940
 rural community action programs, 12406
 small business in Negro community (statement), 12648
 space technology, transfer and developing nations, 1031
 State policy planning, uses of input-output analysis, paper, 12396
 Trust Territory of Pacific Islands, promote, report, 16875
 urban economic development and banking system (paper), 1885

Economic Development Administration:
 administration of sec. 702 under Public works and economic development act of 1965, hearings, 416
 building communities with jobs, 14118, 16938
 business development loans, who can borrow, how to apply, 1797, 12388, 16939
 directory of approved projects, 2787
 grants and loans for public works and development facilities, 12390, 16940
 grants for public works and development facility projects, improvements needed in procedures for determining supplementary assistance, GAO report, 4340
 job creating programs, district development, 12389, 15534
 management interns, challenge and opportunity, 1796
 1968 progress report, 4150
 planning grants for economic development, 12391, 16941
 requirements for approved projects, 5518
 press releases, 3278
 programs (address), 12065
 publications, list, 12392
 research review (periodical), 3386
 role in industrial and commercial growth (address), 13802
 selected Indian reservation program, 14119
 technical assistance, what it is, how to apply, 12393, 16942

Economic geology, *see* Geology.

Economic indicators (periodical), 2785

Economic Joint Committee:
 committee print, 346, 6566, 7835, 9245-47, 10688, 12131, 13848, 16746
 hearings, 344-345, 3938, 5316, 6565, 6567-68, 6700, 7833-34, 10689, 12130, 12132
 publications and policies governing their distribution, 87th-91st Congresses, 9245
 report, 5403

Economic Opportunity, National Advisory Council on, *see* National Advisory Council on Economic Opportunity.

Economic Opportunity Office:
 Acaadia Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 12733
 Albuquerque Job Corps Center for Women, Albuquerque, N. Mex., effectiveness and administration, GAO report, 12734
 annual report—
 departmental edition, 12397
 document edition, 12141
 Atterbury Job Corps Center for Men, Edinburg, Ind., effectiveness and administration, GAO report, 12735
 CAP, Community Action Agency, atlas, 8145
 C/HS pamphlet, 12398
 Cispus Job Corps Civilian Conservation Center, Randle, Wash., effectiveness and administration, GAO report, 11205

Economic Opportunity Office—Continued
 Colburn Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 17059
 community action programs, 3403, 9636
 37
 CAP mission guide, participation of the poor in community decision-making process, 15536
 effectiveness and administration, GAO report—
 Becker, Hubbard, and Mahnomen Counties, Minn., 12737
 Carroll, Chariton, Lafayette, Ray, and Saline Counties, Mo., 11207
 Detroit, Mich., 17061
 Gila River Indian community, 11206
 Grand Rapids, Mich., 11208
 Kansas City, Mo., 11209
 Lake County, Ind., 14308
 Los Angeles County, Calif., 17060
 Pinal County, Ariz., 11210
 Phoenix, Ariz., 12738
 St. Louis City and St. Louis County, Mo., Human Development Corporation, 14307
 White Earth Reservation, 12736
 employment programs for poor, manpower, guidebook, 10962
 mobilization of non-poor volunteers in community action, CAP mission guide, 12401
 parent and child centers, guide for development, 6849
 PERT for CAA planning, programmed course of instruction, 4152-53
 rural, through economic development, 12406
 service activities, variations in cost and performance, Health, Education, and Welfare Dept., GAO review, 15788
 special technical assistance program, STAP 1967-68, 1st year evaluation, 6853
 STAP, special technical assistance program 1967-68, 1st year activity program, 5524
 what is STAP? 5523
 Director, nomination of Donald Rumsfeld, hearing, 9485
 economic opportunity act of 1964, text, as amended, 494
 Economic Opportunity Office and business, partnership against poverty, 12402
 Eight Canyon Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 11211
 health services programs—
 hearings, 12224
 report, 15296
 healthbright programs, 6851
 JCII series, 4151
 Job Corps staff newsletter, 3017
 Keystone Job Corps Center for Women, Drums, Pa., effectiveness and administration, GAO report, 11212
 Kilmer Job Corps Center for Men, Edison, N.J., effectiveness and administration, GAO report, 15779
 Legal Services program—
 effectiveness and administration, GAO report, 12739
 monthly account, 3032
 manuals, 8145
 migrant and seasonal farmworkers program in Phoenix, Ariz., under title 3 of economic opportunity act of 1964, effectiveness and administration, GAO report, 14309
 news summary of war on poverty, 3201
 nutrition and human needs, statements by OEO officials, hearings, 5463
 OEO public information center, invitation to visit, 6847
 OEO training manuals, 4152-53

Economic Opportunity Office—Continued
 pamphlets, 5523-24, 6846-53, 8146-48,
 9633-37, 12402-4, 14120-122, 15616,
 16945-946
 press releases, 3279
 programs, GAO review, 8086
 programs for benefit of disadvantaged pre-
 school children, GAO report, 5687
 salaries of certain officers and employees
 of organizations funded under Economic
 opportunity act, report, 5328
 Wellfleet Job Corps Civilian Conservation
 Center, effectiveness and administration,
 GAO report, 12740

Economic poisons, *see* Pesticides.

Economic policy:
 and tax reform (remarks), 17428
 deflating an expanding economy (address),
 7796
 economic and industrial affairs, Eastern
 Europe, translations, 3507
 economic opportunity act, continuation of
 programs, etc.—
 hearings, 9341, 10776, 10913, 13925
 appendix, 15315
 1964 text, as amended, 494
 work experience and training programs
 under title 5, monthly report, 2554
 economic opportunity programs, GAO re-
 view, 8086
 Federal assistance programs, catalog,
 5519
 financial guide for administration of plan-
 ning and action grants awarded under
 title 1, Omnibus crime control and safe
 streets act of 1968, 15992
 forecasting errors of the 60's, lessons for
 the 70's (address), 7798
 foreign direct investments controls, termi-
 nate, hearings, 10781
 preliminary post-mortem on 1969 economic
 projections (remarks), 17001
 proposed solutions to current problems,
 17137
 revolutions in economic policy, 3906
 USSR—
 economy and industry, reports on econ-
 omy, finances, and planning at Re-
 public Supreme Soviet sessions, 5819
 international economic relations, trans-
 lations, 3561
see also Economic development—Inflation
 (finance)—International cooperation.

Economic regulations, Civil Aeronautics
 Board, 255

Economic Research Service:
 agricultural economic reports, 565-568,
 1799-1801, 4154, 6855-56, 8150-54,
 9639-41, 10965-968, 14123, 15617-618,
 16947
 appropriations, 1970—
 hearings, 7945
 reports, 9311, 12254
 ERS-foreign series, 571-573, 4157-58,
 5527-28, 6857-61, 8158-60, 9643-44,
 10969-971, 12414-423, 14125, 15623,
 16948-950
 ERS series, 570, 4156, 5526, 8155-57,
 12407-413, 14124, 15622
 foreign agricultural economic reports, 574,
 1803, 5531, 9645, 10972-973, 15624
 periodic reports, list, 3667
 reports, checklist, 2655

Economic stabilization, *see* Stabilization.

Economics:
 American economy and new technology,
 report, 3891
 aspects of aging, toward a full share in
 abundance, survey, hearings, 15414
 print additional copies, report, 15389
 automobile industry, 1968, are planning
 and regulation replacing competition in
 American economy? case study, hear-
 ings, 5465

Economics—Continued
 commercial banks and their trust activi-
 ties emerging influence on American
 economy, staff report, 392
 print additional copies, report, 379
 cost of clean water, economic impact—
 appendix, 9833
 report, 9832
 sewerage charges, 9834
 dairy marketing, research publications,
 bibliography, 8157
 defense-related activity during 1969, 2d
 quarter (statement), 13809
 do you know your economic ABC's?—
 travel USA, simplified explanation of
 role of tourism, 305
 Uncle Sam counts, story of census '70,
 15164
 economic climate for collective bargaining,
 facts, 14473
 economic cybernetics, its problems and
 future, USSR study, 12920
 economic effects of reservation industrial
 employment on Indian employees and
 their families, 9950
 economic effects of using substandard qual-
 ity water in Webster and other com-
 munities in South Dakota, 17095
 economic opportunity amendments of
 1969—
 hearings, 9341, 10776, 10913, 13925
 appendix, 15315
 economic outlook for 1969 (address), 1651,
 12067
 economic systems, problems of control,
 USSR study, 7152
 economics of military procurement—
 hearings, 5316, 7834
 subcommittee report, 9246
 economics of the tax bill (remarks), 16511
 evaluating economic structure of a rural
 area, demonstration of an input-output
 analysis, 12407
 farm products transportation, marketing
 research report, 7596
 Federal Reserve-MIT econometric model,
 staff study, 11137
 Federal role in economic revitalization,
 continuing review, hearing, 4096
 health aspects of aging, toward a full
 share in abundance, working paper,
 14012
 higher education, compendium of papers,
 16746
 highway emergency ambulance services,
 10187
 impact of foreign banking procedures on
 United States, hearing, 3987
 manpower policy (remarks), 10009
 minerals in world economy, minerals year-
 book chapter, 4632
 political economy course, military-economic
 problems in USSR, 4437
 railroad automobile rack car aerodynamic
 drag, 12625
 Rio São Francisco Basin, Brazil, recon-
 naissance appraisal, 10352
 socio-economic projections through 1980,
 subregions of Northeast Corridor, 14945
 trading stamps, use and economic signifi-
 cance economic report, 12653
see also Land.

Economists:
 employment outlook, 4552
 of other countries, 1969-70 labor and price
 statistics training program, Sept. 1969—
 Aug. 1970, 8557
 Rural Electrification Administration career
 opportunities, 8841

Ecosystems, *see* Ecology.

Ecuador:
 background notes, 6267
 economic trends and their implications for
 United States, 5787
 EDA, *see* Economic Development Adminis-
 tration.

ED&T reports, 12679-680, 14259-261

Eddy currents:

application of some statistical techniques to study of eddy structure, 1604

formation and boundary layer in fish locomotion, USSR study, 15931

torques, experimental investigation, on bodies rotating relative to uniform magnetic field, 11442

Edelsberg, Edward, commercial fisheries review, 2677

Ederma, Arvo B., administrative guide for Federal occupational health units, 11602

Edgerton, Curtis D., mineral industry of Connecticut, 918

Edgren, James W., potential damage to forest tree seed during processing, protective treatment and dissemination, 4219

Editing:

Atlantida, case study in household sample surveys, Spanish edition, 1624

simple technique for automatic computer editing of biodata, 11479

Edmonds, D. K., incipient and developed cavitation in liquid cryogenics, 6050

Edpae, utility programs for computer-assisted editing, copy-production, and data retrieval, 6052

EDPS, *see* Electronic data processing systems.

EDS, *see* Environmental Data Service.

Education:

adult basic education—

bibliography, 4160

lifetime of learning, 12436

program of Education Office, 5014

program statistics, students and staff data, 10974

American education (periodical), 2596

American Indians, literature survey, 8082

associations, directory, 5538

bilingual education, new program, projects, 16961

Business, Industry & Education, Inc., corporations and educators form partnership in learning, 5534

can television really teach? 14130

career development program, research and education in medicine, 7556

child day care centers, Federal assistance to improve educational services, hearings, 396

children—

in federally affected areas, 1968 annual report, 14127-128

living in federally assisted public housing, educational assistance to federally impacted areas, hearing, 7951

research programs, studies in progress, 6511, 15124

children with specific learning disabilities act of 1969, report, 15270

community service and continuing education program of Education Office, 14972

compensatory, books related, 16952

compensatory, program, 6868-78, 6899-6901

preschool, 6889-94

continuing education for R & D careers, exploratory study, 16280

cooperative program, Army, 7660

criteria for technician education, suggested guide, 1804

the culturally different, multi-cultural approach, handbook for educators, 16956

deaf, review of selected program activities, 8888

directory, 5538

higher education, 1807, 4166

public school systems, 8165

disadvantaged children, conferences on improving, report, 8173

drug abuse education workshop for teachers, how to plan, 16347

early childhood, 577

Education—Continued

early childhood education, selected references in field, 6854

education outdoor recreation, 1274

education, employment, and Negro equality, seminar on manpower, 883

education in action (remarks), 15630

educational assistance for gifted and talented children, hearing, 13927

educational attainment, population characteristics, 7742, 12010

educational needs of young people today (remarks), 10978

educational reform in Brazil, 1961 law, 1808

educational statistics, digest, 1968 edition, 1805

educational statistics to 1977-78, projections, 6896

educational talent search program, 578

educational television and radio broadcasting facilities, construction, Federal grants, extend—

hearings, 10796

reports, 8049, 15259

effect of maturation and educational experience on Air Force officer qualifying test scores, 8996

emergency student loan act of 1969—

hearing, 12311

reports, 15249, 16788

enactments, 90th Congress, 2d session, 14055

evaluation is a full-time job, 6879

exchange programs—

agreement with—

Cyprus, 2503

Federal Republic of Germany, 11726

Philippines, 8896

Romania, 6296

Union of Soviet Socialist Republics, 2497

international educational and cultural

exchange—

periodical, 2998

report, 11707

Federal educational activities, survey, 1692

Federal educational policies, programs and proposals—

analysis and classification of programs, 1692

background, issues, relevant considerations, 1692

print as House document, report, 378

survey and handbook, 1692

Federal funds, 1969, State allotments for funded programs, 10979

Federal laboratory-university relationships, symposium proceedings, 11054

Federalism in education, role of Federal Government (address), 10980

focused universities and environmental quality, commitment to problem, report, 16399

Fulbright program in Asia, diary of trip, 9458

Georgia Superintendent for Bureau of Refugees, Freedmen and Abandoned Lands, records 1876-1876, pamphlet to accompany microcopy, 16221

gifted and talented children educational assistance act, report, 15269

good training, good jobs, MDTA—

nurse aid to licensed practical nurse, 1809

occupational therapy assistant program, 579

upgrading practical nurses, 580

graduate, parameters for public policy, 8738

guidance and personnel services in State Department of Education, directory, 9650

INDEX 1969

Education—Continued

handicapped children—
 contributions of title 3 program, 9648
 new and expanded programs, 6882
 preparation of professional personnel,
 manual, 15639
 handicapped children's early education
 assistance act, policies and procedures,
 6888
 head start child development centers, good
 nutrition, 12405
 health occupations, manpower supply and
 educational statistics, health manpower
 source book, 16256
 health professions, educational improve-
 ment grants, 4883
 high school and college work-study pro-
 grams, do your own thing and stay in
 school, 5536
 ideological improvement needed for Soviet
 people, 5846
 improving through research, development,
 demonstration, dissemination, training,
 annual report, 5545
 Indian children, study, authorization—
 hearings, 4093
 report, 5416
 Indians, policy, organizations, administra-
 tion and new legislation, hearings,
 10915
 industrial arts, planning and designing
 functional facilities, 584
 information centers, directory, 14131
 international education, 8172
 inventory of Federal programs, 8386
 international education act of 1966,
 amend, hearings, 495A
 international health, education, and labor
 programs, hearings, 495A
 international understanding and coopera-
 tion, inventory of Federal programs
 involving educational activities con-
 cerned with improving, 16958
 joint committee on cultural and educa-
 tional cooperation, agreement with
 Japan, 4977
 key people, career with your Federal Gov-
 ernment, 16688
 laws, compilation, 7950
 legislation, status, report from Mexico
 American Affairs Unit, 12440
 let's be practical about reading, 14137
 literature of profession, bibliography,
 10977
 mercury, donation of surplus for educa-
 tional and public health purposes,
 Health, Education, and Welfare Dept.,
 GAO report, 7028
 Mexican-American education, search for
 identity, 5558
 Mexican-American handicapped children,
 improving educational opportunities,
 8171
 migrant, directory of consultants, 12425
 minority groups in U.S. (remarks), 14227
 model of teacher training for individual-
 ization of instruction, 1813
 more education, more opportunity, 5548,
 15636
 NASA educational publications, 5987
 national assessment, where is it now?
 16960
 national defense education act—
 amend, hearings, 12214
 awards for modern foreign language
 and area study, 5533
 graduate fellowships, 1969-70 graduate
 programs, 4179
 language development program, research
 completed, etc., list, 10975
 title 3, fiscal years 1959-67, manage-
 ment view, 10983
 title 5, review of progress, 10988
 new education, promise and performance
 (address), 14140

Education—Continued

nonwhite women, educational attainment,
 fact sheet, 2543
 nuclear education and research, con-
 ference on special topics, 13690
 opportunities and financial assistance for
 nursing students, 15041
 opportunity grant program, 1969-70 al-
 locations of Federal funds, 14052
 people who serve education, report on state
 of education professions, 4180
 personnel development programs, 1969-70,
 education professions development act,
 handbook for directors, 1810
 persons and families, Mar. 1969, selected
 characteristics, 13763
 planning educational change—
 how 5 school systems desegregated,
 10986
 human resources in school desegregation,
 9659
 technical aspects of school desegrega-
 tion, 10985
 political education of scientists discussed,
 USSR study, 5867
 private, special fund, agreement with
 Philippines, 1448
 problems of handicapped in inner city
 (remarks), 14132
 professions development act—
 articles, 5539
 investment in future, 8166
 programs for 1969-70 institutes, sum-
 mer, part-time academic year fellow-
 ships, 4167
 programs for 1970-71, facts, 9651
 program, dental hygienists, planning, 1197
 program of support for unsolicited basic
 research in education, 15640
 programs for the disadvantaged, Educa-
 tion Office, 6886
 progress in American education, research
 reports, 4183
 progress through research, development,
 demonstration, dissemination, training,
 1968 annual report, Cooperative Re-
 search, 12437
 Quebec, province of, 12428
 quality, profiles, 585
 quotes and summaries of articles and
 speeches by James E. Allen, Jr., 9657
 regional educational laboratories, progress
 report, 586
 research and development, advances in
 education, 587
 research in education (periodical), 3384
 index, report resume, 5551
 semi-annual, index, 12438
 right spirit all year long, 5552
 school media programs, emphasis on ex-
 cellence, 12430
 social aspects of engineering education (ad-
 dress), 16709
 special funds for education, agreement
 with Philippines, 1448
 State departments—
 grants to strengthen, administration
 under title 6 of elementary and sec-
 ondary education act of 1965, notes
 and working papers, 1742
 1970-71 foreign curriculum consultant
 program, 14135
 State Departments of Education, report of
 state, 12439
 strengthening educational research and
 development (remarks), 12441
 summer youth opportunity program,
 Transportation Dept., 1968 annual re-
 port, 11751
 tax information on educational expenses,
 8448
 Teacher Corps, futures in education, 5542
 teachers, opportunities abroad, exchange,
 15642
 to reject no one (remarks), 589

Education—Continued
toward mutual understanding, report on academic exchanges, 9842
training activities under manpower development and training act, annual report, 8385
training, studies and reports, 1968 fiscal year, 5268
trust funds for scholarships, employer contributions—
hearings, 9342, 9481
reports, 10714, 12261, 15283
urban, 591
urban education crisis, need for agreement on procedure (remarks), 10990
USSR, translations, 3516
veteran, education and training program, increase benefits, amend U.S. Code, hearings, 15472
veterans educational amendments of 1969, report, 9295
veterans' educational assistance allowances, increase rates—
hearings, 10807
reports, 12170, 16869
veterans educational assistance benefits for veterans with service since Jan. 31, 1955, summary, 7557
veterans, laws providing educational benefits, amendments, hearings, 7978
visually handicapped child, home and school programs, development and trends, 6903
where the money is, American education's annual guide to OIE programs, 5559
women, trends in educational attainment, fact sheet, 17440
see also Colleges and universities—Consumer education—Curriculum—Elementary education—Military education—Naval education—Professional education—Secondary education—Technical education—also subjects taught.

Education and Labor Committee, House:
calendar, 3039
committee print, 7950
comparison of State mining laws, 12213
hearings, 396, 5372-74, 6709, 7951-52, 9341-43, 10775-778, 12214-216, 13924-927, 15311-315, 16816
investigations and studies—
authorization, report, 6653
coal mine safety and health practices in Great Britain, new developments, report, 7893
expenses, report, 7881
production of foreign-made goods competing with domestically produced goods, report, 7893
reports, 371, 6655, 6684, 6686, 6695, 9292-93, 9320, 10713-714, 15232, 15249, 15269-270, 16789, 16817

Education Association, National, see National Education Association.

Education by television, see Television.

Education, Extension and Continuing, National Advisory Council on, see National Advisory Council on Extension and Continuing Education.

Education Office:
academic facilities constructed with Federal financial assistance, need for strengthening controls for determining compliance with statutory restrictions on use, GAO report, 1947
administration of higher education programs in foreign language and area studies, research and training opportunities abroad, 14142
adult basic education program, 5014
annual report, 1968, on administration of laws granting Federal aid to schools, 14127-128

Education Office—Continued
appropriations, 1970—
hearings, 10766
report, 12197
Commissioner of Education, nomination of James L. Allen, jr., hearing, 8083
community service and continuing education program, 14972
computer activities support, 14145
educational research, graduate fellowship program, 4173
elementary teacher training models, 9 program models, 16957
leadership training, career program, 4188
organization and functions, handbook, 590
practices followed in adjusting Federal grants awarded for construction of academic facilities, GAO report, 5692
programs, American education's annual guide, 5559
programs, Federal funds, 1969, State allotments for funded programs, 10979
programs for the disadvantaged, 6886
publications, list, 1816, 6885
research and development centers, review, 4184
Research Bureau, support for research and related activities, description, 9658
sponsors programs that can assist you! 5548, 15636
support for the arts and the humanities, 4189
vocational-technical education program, 5017

Educational associations:
civil defense, a vital concern to PTA, 1637
directory, 5538

Educational boards and departments, guidance and personnel services, directory, 9650

Educational Exchange between United States and Federal Republic of Germany, Commission for agreement, 11726

Educational institutions, see Colleges and universities.

Educational Materials Center, reference tools, 1968-69 acquisitions list, 16962

Educational Resources Information Center: ERIC can help school administrators, teachers, etc., 8167, 9655
manpower research, inventory, 581, 16959
pacesetters in innovation, PACE program, etc., 5550
research in education (periodical), 3384
index, report resume, 5551
semi-annual index, 12438
thesaurus of ERIC descriptors, 9661

Educators:
conservation in your life, services to educators, 14256
conservation tools for educators, 12675
education specialist and education services officer, program specialist and advisor, public health educator, examination announcement, 5272
employment opportunities overseas, 556A
Mexican-Americans, handbook for educators, 14139

Edwards, C. L. W., low-density, leading-edge bluntness, and ablation effects on wedge-induced laminar-boundary-layer separation at moderate enthalpies in hypersonic flow, 2226

Edwards, John P., establishing business in Lebanon, 312

Edwards, R. D., control and reduction of oil mists from mechanical vacuum pumps, 13719

Edwards, Russell J., soil survey, Carver County, Minn., 2462

Edwards, W. M., improvements in automatic sampling equipment used to determine extent of pollution in runoff from agricultural watersheds, 11787

- Edwards (U.S.S.):
loan, extension, agreement with Japan, 11913
- Effective Revenue writing, 17100
- Efficiency ratings, Air Force officer performance factor ratings, stereotyped patterns, 9905
- Elements:
brine, disposal from inland desalting plants, review and bibliography, 14407
disposal from desalination plants—
effects of copper content, heat, and salinity, 9973
into estuarine waters, 9958
secondary, from wastewater treatment plants, ozone treatment, 15745
see also Waste products.
- Efron, Daniel H., psychopharmacology, review of progress, 6197
- Egeberg, Roger O., nomination hearing, 12314
- Eggers, James M., experimental investigation of mixing of compressible air jets in coaxial configuration, 11492
- Eggers, Paul W., statement, Oct. 1, 1969, 16517
- Eggs:
commercial egg producing farms, costs and returns, New Jersey, 15619
egg pasteurization manual, 14975
foreign agriculture circulars, 2902
futures, commitments of traders, 2680
grading and processing plant for high-volume production, 6384
grading manual, 11861
1970 egg marketing guide, 16903
plants operating under USDA inspection and grading programs, list, 509
poultry and egg situation (periodical), 3262
pricing systems, 5972
processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 508, 10922
production, 13492
disposition, cash receipts and gross income, 1967-68, by States, 11730
home chicken flock, 10484
tests, U.S. and Canada, 1968 report, 3621
products, liquid, frozen, solid production, 2788
USDA's acceptance service, 16545
western budworm, 24-inch branch as sample unit for mass surveys, 3674
- Eggspuehler, J. J., study to determine flight profile and mission of certificated private pilot, 13646
- Egle, D.M.:
approximate theory for transverse shear deformation and rotatory inertia effects in vibrating beams, 11407
theoretical analysis of free vibration of discretely stiffened cylindrical shells with arbitrary end conditions, 11406
- Egypt:
corrosive ground waters, selection of metal components for long-term development, 14357
solitary wasps and bees and their associates (Hymenoptera: Aculeata), life history notes, 13430
- Eichelberger, R. L., solubility of refractory metals and alloys in potassium and in lithium, 11417
- Eichers, Theodore, DDT used in farm production, 8154
- Eichler, John B., SWIMM code, stress wave propagation in elastic-plastic-compatible media, 5158
- Eidopher, *see* Display systems.
- Eigenfunctions, tables of eigenvalues of wave equation in prolate spheroidal coordinates, 14743
- Eigenvalues, *see* Eigenfunctions.
- Eight Canyon Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 11211
- Eiland, J. C., distribution of rice in United States, 12411
- Eilersten, Donald E.:
phosphate rock, 16094
potash, 13022
- Eisenberg, Joseph D., helium pressurization systems for liquid-methane fuel in supersonic transports, 17252
- Eisenbud, Robert E., career opportunities in field of mental retardation, 8384
- Eisenhower, Dwight D.:
dollar, commemorating, reports, 16778, 16786, 16853
memorial services, print eulogies, report, 7921
6-cent commemorative postage stamp—dedication ceremonies (remarks), 16331
poster, 16325
see also President of United States.
- Eisenhower, John S. D., nomination, hearing, 5443
- Eisenhower, Mamie D., franking privileges, law, 9236
- Eisenhower Dam, *see* Dwight D. Eisenhower Dam.
- Eisenhower National Historic Site, development, reports, 15264, 15366
- Eisenhower trophy, NGR, announcement of winners, 17271
- Eisenhuth, H. P., index of surface-water records to Sept. 30, 1967, lower Mississippi River basin, 7048
- Eisler, J. D., free-field particle motion from nuclear explosion in salt, 9074
- Ejector:
box ejector for insect distribution from helicopter, 11791
ejection-type atomizer, theory and design, USSR study, 5820
- Eklund, Darrel L., use of special aids in homes for the aged and chronically ill, 2432
- Eklund, M. W.:
growth and toxin production of *Clostridium botulinum* types 7, nonproteolytic B, and F in nonirradiated and irradiated fisheries products in temperature range, 7709-10
significance of *Clostridium botulinum* type E in application of radiation pasteurization process to Pacific crab meat and flounder, 7708, 7711
- Eklutna project, mechanical equipment, maintenance and operation, field review, 13399
- Ela, Robert E., mineral industry of Maine, 955, 17185
- Elahwal, Jalileh F. S., relief, 9263, 12844, 12980
- El-Swaify, S. A., salinity tolerances of certain tropical soils and relationships between sodium ion activities and soil physical properties, 8419
- Elastic constants, *see* Elasticity.
- Elastic materials, *see* Elasticity.
- Elastic strain, *see* Strains and stresses.
- Elasticity:
continuum theory for elastic solid with elastic micro-inclusions, 7241
dynamic moduli of frozen soils and of ice, laboratory determination, 10541
electric moduli of rock at elevated temperatures, 11384
mechanisms with elastic couplings, dynamics and stability, 14050
micromorphic elastic solids, compatibility conditions of theory, 1034
micromorphic material constants from properties of constituents, how to determine, 7240
on phenomenon of thermoelastic instability (thermal flutter) of booms with open cross section, 11456

Elasticity—Continued
 photoviscoelastic model testing, 5963
 plane elasticity, improvement of integral equation method in plane elasticity through modification of source density representation, 5977
 static and dynamic viscoelastic behavior of fiber reinforced materials and structures, 1590
 transformations of elastic constants for anisotropic media by successive simple rotations, 7214
 viscoelastic shear-damped structural composites, loss factor and resonant frequency, 5976
 viscoelastic strip, stable crack propagation, 7227
 Elastomers:
 elastomeric bearings for UH-1 tail rotor assembly, improved concept, 5130
 production and sales, 1468, 14940
 Elastoplastic stress-strain behavior at notch roots in sheet specimens under constant-amplitude loading, 11468
 15411
 Elberon, Iowa, railroad accident, report 12626
 Elderly people, *see* Aged.
 El Dorado, Kans., Walnut River, floods, how to avoid damage, 12498
 Eldorado National Forest:
 camping and picnicking 12673, 14252
 vehicle control area map and vehicle use rules in area, 14270
 Elections:
 campaign expenditures committee, 1968, report, 3981
 District of Columbia act, amend, report, 15441
 electoral college reform—
 amend U.S. Constitution, hearings, 6722, 14048
 message from the President, 6577
 employee representation, conducted by NLRB, reports, 3151
 investigation, expenses, report, 5418
 naturalization of aliens during period preceding general election, amend act, report, 9287
 President and Vice President—
 amend U.S. Constitution relating to electoral college, hearings, 6722, 13940, 14048
 by direct popular vote, amend U.S. Constitution, proposal, reports, 15227, 15229
 survey of political broadcasting, 1966 primary and general election campaigns, 12605
 vote for farmers of your choice, ASCS committeemen, general information, 11877
 Electoral college, *see* Elections.
 Electric apparatus and appliances:
 consumer information, publications, price list, 4868
 electric housewares and fans, current industrial reports, 228
 change, 9131
 electrical appliance serviceman, suggested guide for training course, 14133
 trade and tariff information, summaries, 7541
 electrical component development for 400-hertz Brayton energy conversion system, summary, 1097
 electrical component parts, test methods, military standard, 9523
 electrical equipment manufacturing, industry trend, 7731
 electrical equipment of certain branches of industry, USSR study, 15977
 electrical indicating instrument shipments, 1966-67, analysis, 10587
 electrical installation for control of northern squawfish, 7817

Electric apparatus and appliances—Con.
 electromedical apparatus, principles of operation, installation, and use, 10159
 electro-optical aids, discomfort in use, analysis, light flashes, pupil size, and visual performance, 8577
 equipment components, Federal item identification guides for supply cataloging, supplements, 2846
 facilities safe practices handbook, Air Force pamphlet, 13615
 holders, retainers, and shields for electrical and electronic equipment, Federal item identification guide, 15504
 major appliance wholesaling, facts, 10590
 servicemen, employment outlook, 4476
 USSR industrial development, translations, 3557
 Electric arc:
 convected balanced arc, experimental and theoretical analysis, 4681
 direct current arc and alternating-current spark emission spectrographic field methods for semiquantitative analysis of geologic materials, 11234
 helium arc, spectroscopic study, 16162
 Electric batteries:
 for space power systems, 5988
 fuel cells—
 hydrogen-oxygen, high-performance light-weight electrodes, 2195
 matrix type of hydrogen-oxygen fuel cell, experimental investigation of dynamics of water rejection from, 2255
 hydrogen-oxygen electrolytic regenerative fuel cells, 10069
 improved inert-cathode/magnesium-anode sea-water battery, characteristics, 1259
 nickel-cadmium batteries, by farad capacitance measurements, determining state of charge, 7680
 nonaqueous systems for secondary battery applications, electrochemical characterization, 16141
 performance of fuel cell of Bacon type, effects of temperature and electrolyte concentration, 8634
 seawater battery with converter-regulator as power source for AN/SSQ-38 sonobuoy, 2358
 Electric cables:
 insulated, current industrial reports, 1620
 lateral cable oscillations of cable-connected space stations, 7279
 universal wire stripper, description, 14761
 Electric capacity, *see* Capacitance.
 Electric conductivity:
 conducting polymer materials, USSR study, 12921
 measuring electrical conductivity of air in free atmosphere from aircraft, USSR study, 15975
 molten salts, electrical conductance, density, and viscosity data, 1176
 snow and glacier ice from Antarctica and Greenland, 1574
 VLF effective ground conductivity map of Canada and Greenland with revisions derived from propagation data, 10269
 Electric conductors, flat conductor cables, tools, fixtures and equipment for, compilation, 2213
see also Superconductivity.
 Electric conduits, Federal item identification guide, change, 8120
 Electric connectors, *see* Connectors (electric).
 Electric contacts:
 contact sets, Federal item identification guide, 15502
 metallurgical characteristics and performance of materials used for sliding electrical contacts, research, 17207
 superconducting lead pressure contacts, 1263

- Electric cooperative associations, board members, guide, 4918
- Electric current converters:
 - inverter-converter automatic paralleling and protection, 5971
 - seawater battery with converter-regulator as power source for AN/SSQ-38 sonobuoy, 2358
- Electric currents:
 - calculation of retarded electric field for arbitrary charge and current distribution, 11564
 - circulating currents in linear crossed-field generators and accelerators, 10147
 - high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stability, 15062
 - inductors for protecting power transistors against current surges in inverter bridge circuits, analysis and design, 4725
 - problem of current limits in accelerators and stability of nonuniform electron beams, 15067
- Electric cutouts, joints and cutouts, application of micromechanics, 9059
- Electric discharge, high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stabilization, 15062
- Electric energy, *see* Electricity.
- Electric engineering:
 - East European abstracts, 2780
 - Navy design manual, changes, 4818, 14722
 - USSR abstracts, 3565
- Electric engineers:
 - career as a civilian in—
 - Air Force, 1529
 - Navy Department, 2360
 - employment outlook, 4505
- Electrical equipment, *see* Electric apparatus and appliances.
- Electric fans:
 - change, current industrial reports, 9131
 - circulating, bracket and desk type, Federal standard, 9828
 - current industrial reports, 228
 - see also* Fans.
- Electric fields:
 - calculation of retarded electric field for arbitrary charge and current distribution, 11564
 - circulating currents in linear crossed-field generators and accelerators, 10147
 - influence on motion of particles in helical fields, 16608
 - ionosphere, theory of origin and effect, 1533
 - motion of particles in helical fields having equipotentials coinciding with magnetic surfaces, 5140
 - quasi-steady electric fields and plasma oscillations in Stellarator L-1, studies, 15066
- Electric fishing device, lightweight backpack high-voltage electrofishing unit, 16456
- Electric fuses, Federal item identification guide, 9520
- Electric generators:
 - alternators, prediction of windage power loss, 1078
 - colossal generating units at third powerplant, Grand Coulee Dam, 14828
 - digital-computer design analysis program for homopolar inductor alternators, description and evaluation, 7261
 - 14.3-kilovolt-ampere modified Lundell alternator for 1200 Hertz Brayton-cycle spacepower system, performance characteristics, 14643
 - MHD generator cathodes emitting in spot mode, analytical and experimental studies, 16169
 - motors and generators, current industrial reports, 3852
 - see also* Electric power plants.
- Electric lamps:
 - current industrial reports, 2732, 3845
 - fluorescent, ballasts—
 - current industrial reports, 2733, 10602, 12000
 - shipments, 1958-68, patterns of industrial growth, 13729
 - see also* Lamps.
- Electric lighting, *see* Electricity.
- Electric lines:
 - distribution line design (mechanical), rural, engineering and operations manual, 17365
 - electric transmission specifications and drawings, 1372
 - horizontal boring technology for underground power transmission line installations, state-of-art-study, errata, 939
 - long-range 500-kilovolt electric power transmission lines, USSR study, 12894
 - power transmission facilities, improved appearance, 14835
- Electric machinery, *see* Machinery.
- Electric measurements, *see* Measurements.
- Electric motors, electricity, motive power systems, classification definitions, 2381
- Electric networks, commutated networks employing feed back circuits, analysis, 1111
- Electric power, *see* Electricity.
- Electric power distributors, *see* Electricity.
- Electric power plants:
 - capacity of electric generating plants, world power data, 6947
 - financed generating plants, Rural Electrification Administration, 8843
 - heliostations, working, described, USSR study, 12892
 - hydroelectric, 1966-67, construction cost and production expenses, 11067
 - hydro-power plant transients, prototype measurements, Garrison and Oahe Dams, Missouri River, North and South Dakota, 4215
 - errata, 9716
 - Logan project, Logan River, Utah, development owned by Utah Power and Light Co., water resources appraisal for Hydroelectric licensing, evaluation report, 15718
 - MHD for central station power generation, plan for action, 16397
 - Oneida project, Bear River, Idaho, development, owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718
 - power interruption—
 - Idaho-Utah, interconnection, report, 12619
 - Pennsylvania-New Jersey-Maryland interconnection, report, 649
 - power transmission facilities, improved appearance, 14835
 - powersites at Tye, Eagle, and Spur Mountain Lakes, southeastern Alaska, geologic reconnaissance of possible sites, 5697
 - problems in disposal of waste heat from steam-electric plants, staff study, 12623
 - recreation opportunities at hydroelectric projects licensed by FPC, 11077
 - steam power plant site selection, considerations affecting, report, 2442
 - steam-electric plants, construction and production expenses, 4262
 - thermal pollution from new generation of large electric generating plants, hearings, 501, 1744
 - print additional copies, report, 9421
 - Wilder, Bellows Falls, Vernon, and Turner Falls Development, water resources appraisal for hydroelectric licensing, evaluation report, 8211
- Electric probes:
 - Langmuir probe and microwave interferometer measurements, correlation using free-stream electron concentration in arc-heated wind tunnel, 17245

- Electric probes—Continued
theory of circular planar (guardring)
Langmuir probe, 6914
see also Probes.
- Electric propulsion, *see* Propulsion.
- Electric pulses, *see* Pulses.
- Electric railroads, transport statistics, 15895
- Electric ranges, *see* Stoves.
- Electric relays:
industrial controls, current industrial reports, 3857
selection and application, military standard, 15529
- Electric resistance:
electrical resistivity measurements, Midway and Kure Atolls, 14353
function of deuterium concentration in palladium, 2264
hyperstoichiometric—
 columbium and zirconium carbide materials at elevated temperatures, 14553
 zirconium carbide materials to 2,000°C, 6475
- Electric resistors:
fixed and adjustable, Federal item identification guide, 16917
selection and use of, military standard, 540, 12364
thermal, Federal item identification guide, 15512
variable, Federal item identification guide, 536, 16918
- Electric resolvers, resolvers, electrical selection, 12371
- Electric shock:
hazards, control, 885
injury, prevention, demonstration guide, 17332
- Electric sign servicemen, *see* Electricians.
- Electric stoves, *see* Stoves.
- Electric switches, attenuator based on ferrite resonance switch, 16611
- Electric switchgear:
current industrial reports, 3857
switch, nonrotary, Federal item identification guide, 15519
switches and associated hardware, selection, and use of, military standard, change, 9525
switches, magnetically operated, classification definition, 6157
- Electric transformers, transformer of closely spaced pulsed waveforms having nonzero average value, 16200
- Electric transmission specifications and drawings, 1372
- Electric utilities:
industry wage survey, 10017
private and Federal projects, 1965-1967, sales of firm electric power for resale, 15719
sales of firm electric power for resale, 1965-1966, by private electric utilities, by Federal projects, 1872
statistics, 1967—
 class A and B privately owned, 641
 publicly owned, 8214
supply and demand for energy in United States by States and regions, 5932
Working Committee on Utilities, report, 13330
- Electric vehicles, power sources for electric cars, 1571
- Electric waves:
electromagnetic waves—
 absorption in strongly inhomogeneous plasma, 16614
 dielectric rod immersed in plasma, analysis, 1089
 electromagnetic and plasma waves, induced Compton effect, under astrophysical conditions, 15063
2GHz electromagnetic wave propagation over optical paths in 3 geographical regions of United States, study, 17205
- Electric wire and wiring:
devices and supplies, current industrial reports, 3858
exploding wire initiation and electrical operation of 40-kV system, arc-heated drivers up to 10 feet long, 8623
Federal item identification guides for supply cataloging, supplements, 2846
insulated, current industrial reports, 1620
universal wire stripper, description, 14761
wiring devices and supplies, 1960-67 shipments, patterns of industrial growth, 16642
- Electric wiring, *see* Electric wire and wiring.
- Electrical, *see* headings beginning Electric.
- Electrical characteristics of Pyrrone polymers, 11416
- Electrical circuits, *see* Circuits.
- Electrical discharges, hollow cathode, measurements of some properties of discharge, 5991
- Electrical equipment, *see* Electric apparatus and appliances.
- Electricians:
construction, employment outlook, 5403
employment outlook, 4502
I.C. electrician 1 & C, Navy training course, 1249
maintenance, employment outlook, 4520
job grading standard, 12048
1 & C, Navy training course, 4830
- Electricity:
AC losses of high field super-conductor and implications for power applications, theoretical and experimental study, 12285
additional temporary diversions from Niagara River, for power production purposes, agreement with Canada, 7995, 7997-98
air pollution and regulated electric power industries, staff report, 12616
Alaska power survey, 11066
all-electric homes, annual bills, 8212
Bonneville power generation and sales statistics, 7728, 16637
borrowers, suggested work order procedure, REA bulletin, revisions, 6221
capacity of electric generating plants and production of electric energy, world power data, 4947
circuit makers and breakers, classification definitions, 4841
classification definitions, 6157
electric lighting fixtures, current industrial reports, 229
electric power—
 1970-90, south central region, 12617
 occupations, employment outlook, 4575
 producing, environmental effects, selected materials, 15215
 statistics, 2789
 supply system, receivers, etc., USSR study, 15977
 supply systems, USSR study, 15972
 USSR industrial development, translations, 3557
electrical lighting fixtures, 1962-67 shipments, patterns of industrial growth, 16641
electrical properties of—
 earth, EMP simulator site, Fort Huachuca, Ariz., 15796
 electrodialysis membranes, 5763
electrical system power flow optimization using gradient method, USSR study, 851
electricity for remote Alaskan villages, 16556
Federal power act, regulations, 3374
hospital facilities, 6183
hydroelectric power development at Tocks Island dam, Delaware River basin, report, 12274
hydroelectric power resources of United States, developed and undeveloped, 5617

- Electricity—Continued
interplanetary probe missions with solar-electric propulsion systems, 13097
low frequency precision measurement and calibration, 4763
motive power systems, classification definitions, 2381
national electric rate books, 643-648, 1873-82, 3160, 4263-69, 5618, 9783-88, 11068-76, 12620-622, 14214-221, 15721-724, 16995-997
power and distribution equipment, Federal item identification guides for supply cataloging, supplements, 2846
power planning in Pacific Northwest, review, 11573
publications, price list, 8791
purchased by REA borrowers, annual report, 10355
retail prices and indexes, 3388
rural—
borrowers, statistical reports, 2441, 17364
electric systems, engineering and operations manual, distribution line design (mechanical), 17365
farms electrified with central station service, 1373
materials acceptable on systems of REA borrowers, lists, 3075, 6220
publications, price list, 6171
statistical bulletin, 3359
rural electrification act, amend—
hearings, 6702
report, 6688
sales of firm electric power for resale, by private electric utilities, by Federal projects, 1872, 15719
sales statistics, TVA retail distribution, 2790
selected technology for power industry, conference, proceedings, 1043
TVA—
municipal and cooperative distributors, 1968 operations, 2516
power, annual report, 1475, 16499
typical bills, residential, commercial, and industrial services, 9781
utility, supply and demand for energy in United States by States and regions, data, 5932
West Central Region power survey, 1970-90, report, 12624
windage power loss in alternators, prediction, 1078
see also headings beginning Electric and electro.
- Electrification processes in warm rain clouds, 9720
Electroadhesive devices, applications study, 1028
Electroanesthesia, method, ways of developing, USSR study, 2073
Electrocardiograms:
automatic detection and display of arrhythmias in long-term ECG tape recordings, 9011
variations of RR and PR intervals of ECG, automatic recognition of heart rhythm disorders manifested by, USSR study, 837
Electrochemical analysis, see Electrochemistry.
Electrochemical Analysis Section, National Bureau of Standards, activities, July 1968-June 1969, summary, 13161
Electrochemistry:
electrochemical behavior of aluminum electrode in molten salt electrolytes, 17247
electrochemical characterization of non-aqueous systems for secondary battery application, 16141
electrochemical demineralization of saline water, activated carbon used as electrodes, 5760
Electrochemistry—Continued
electrochemically controlled ion-exchange desalination transport processes, 7088
molten salts, Gibbs free energies and excess free energies from equilibrium-type cells, 14666
Electrodeposition:
brush plating, electro deposition, military standard, 8137
electrodeposited thorium-chromium and thorium-manganese alloys, preparation of thorium metal by vacuum distillation, 10066
preparation of tungsten carbide, 7217
Electrodes:
activated carbon used as electrodes, in electrochemical demineralization of saline water, 5760
aluminum electrode in molten salt electrolytes, electrochemical behavior, 17247
amalgam, use to measure activity coefficients of metal salts in multicomponent salt solutions, 2011
high-performance light-weight, for hydrogen-oxygen fuel cells, 2195
influence of electrode material on high-voltage vacuum breakdown, 1568
influence of interelectrode distance on stability of straight pinch in quadruple high-frequency field, 6466
iron and platinum, in high-purity closed alkaline systems, potentiostatic current-potential measurements, 2353
lanthanum fluoride electrode—
measurement of fluoride activity and concentration in seawater, 14753
response in water and in 1M sodium chloride, 13303
used in producing aluminum, suspension of duty continue, law, 12111
report, 7905, 10845
Electrodialysis, see Dialysis.
Electrodynamics:
electrodynamic analysis of special non-uniformities in wave guides, USSR study, 849
nonlinear, theory of waves approaching exact solutions, 16609
Electroencephalograms, problem of analysis USSR study, 12883
Electroexplosive devices, see Initiators (explosives).
Electrolysis:
beneficiation of ferrochromium by molten salt electrolysis, 4647
electrowinning aluminum from aluminum chloride, operation of 2-compartment cell, 4636
Electrolytes:
concentration and temperature, effects on performance of fuel cell of Bacon type, 8634
molten salt electrolytes, electrochemical behavior of aluminum electrode, 17247
nonaqueous, properties, 14590
solid electrolyte system for oxygen regeneration, 11413
strong, theoretical mean activity coefficients, in aqueous solutions from 0 to 100 C, paper, 2285
Electrolytic cells, hydrogen-oxygen electrolytic regenerative fuel cells, 10069
Electromagnetic accelerators, see Accelerators.
Electromagnetic fields:
electromagnetic interference characteristics, measurement of, military standard, notice, 1789
superhigh frequency, influence on conditioned cardiac reflexes and functional and morphological state of cordical neurons, 8512
Electromagnetic radiation, calorimetric measurement of superhigh-frequency power, 16612

Electromagnetic waves, *see* Electric waves.
 Electromagnetism:
 electrical properties of earth at EMP
 (Electromagnetic Pulse) Simulator Site,
 Fort Huachuca, Ariz., 15796
 electromagnetic exploration of moon, re-
 port of conference, 14596
 electromagnetic interference characteris-
 tics, requirements for equipment, mili-
 tary standard, 4133
 changes, 6839, 8134
 electromagnetic properties of turbulent
 plasma, 16618
 thermal radiation heat transfer of ma-
 terials predicted by electromagnetic
 theory, errata, 14595
 Electromagnets:
 classification definitions, 6157
 high-field, at NASA Lewis Research
 Center, 1125
 superconductive magnet system, 14-tesla,
 15-cm-bore, 4677
 superconductive 7.2-Tesla 4-magnet
 assembly, 17212
 Electromechanical drive, *see* Drive (electro-
 mechanical).
 Electromotive force, thermal, change for
 87Pt₁₃Rh/Pt thermocouples in 1530K, 10-
 8 torr environment for 3700 hours, 11485
 Electron accelerators, *see* Accelerators.
 Electron beams:
 noise in axisymmetric convergent electron
 beams, 10131, 17217
 nonuniform electron beams, stability and
 problem of current limits in accelerators,
 15067
 studies of electron heating mechanism dur-
 ing electron beam interactions with
 plasma, 16605
 uniform, solid, azimuthally dependent
 modes, 3741
 Electron bombardment, thruster operated
 with cusped magnetic field, 16188
 Electron diffraction:
 adhesion of gold to various planes of
 copper studied with LEED, 13094
 LEED (low-energy electron diffraction)
 studies of adhesion to rhodium, 10143
 LEED study of adhesion of—
 gold to copper and copper-aluminum
 alloys, 13126
 various materials to (111) surface of
 nickel, 10149
 Electron heating, mechanism during electron
 beam interactions with plasma, studies,
 16605
 Electron microscopy, effects of ultraviolet
 radiation on the eye, 10530
 Electron probe microanalysis, preparation
 and microprobe characterization of W 20
 percent Mo alloy fabricated by powder
 metallurgical methods, homogeneity char-
 acterization of NBS spectrometric stand-
 ards, 4762
 Electron scattering, *see* Scattering.
 Electron space discharge device systems, mis-
 cellaneous, classification definitions, 2382
 Electron tubes:
 selection of, military standard, 4132
 test methods, military standards, 548,
 12369
 Electronic circuits, *see* Circuits.
 Electronic computers:
 activities, Education Office support, 14145
 analog and analog digital computers, USSR
 articles, 5850
 analog computer study of low frequency
 flow dynamics of 2 nuclear-rocket cold-
 flow engine systems, 13104
 analog-digital models of stream-aquifer
 systems, 12754

Electronic computers - Continued
 analysis of numerical integration tech-
 niques for real-time digital flight simu-
 lation, 1117
 automatic computer editing of biodata,
 simple technique, 11479
 biomedical computer applications, bibliog-
 raphy, 10197
 CAS computer communication network,
 DoD Contract Management Conference,
 1776
 Communist Chinese abstracts, 2682
 computer based biomedical information
 system logic foundation and techniques,
 5133
 computer/display interface study, final re-
 port, 16583
 computer experiments on microscopic be-
 havior of one-dimensional plasmas, 1067
 computer-generated monthly report, sum-
 mary of hours by fund and phase, 12766
 computer mechanization of reentry equa-
 tions with 4 degrees of freedom, 1036
 computer plotting description of ion-mole-
 cule collisions with long lived capture
 description, 14645
 computer simulation of cylindrical galaxy,
 8648
 computer techniques in biological research,
 USSR study, 12888
 computer technology in medicine, appli-
 cations, USSR study, 11323
 computerized Arrhenius reliability extra-
 polation techniques, 1119
 decentralized computation systems, USSR
 study, 2064
 deer browse production, rapid sampling
 and computer-aided analysis, 4312
 device for producing both hard copy alpha-
 numeric listings and digital data plots,
 16201
 DIB computer news, 304
 digital—
 COBOL, common business oriented lan-
 guage, fundamentals, programmers,
 6152
 computer system for signal analysis,
 7385
 design-analysis program for homopolar
 inductor alternators, description and
 evaluation, 7261
 method of optimal processing of radio
 signals, USSR book, 5872
 NELIAC-N, the NAREC version of
 NELIAC programming language,
 13273
 solution of modified Berggren equation to
 calculate depths of freeze or thaw in
 multilayered systems, 5110
 use of superposition to obtain wind tun-
 nel interference factors for arbitrary
 configurations, with particular refer-
 ence to V/STOL models, 6025
 East European abstracts, 2778
 effective use in nuclear industry, confer-
 ence proceedings, 9067
 identifying clouds, USSR study, 2084
 impact on small and medium-sized banks,
 630
 literature bibliography, 2289
 medical food service computerization
 study, 10531
 microcontrol and diagnosis of malfunc-
 tions, 15978
 predicting long-term operational param-
 eters of high-frequency sky-wave tele-
 communication systems, 11027
 processing sociological information, USSR
 study, 2072
 programs, *see* in main alphabet, computer
 programs, programming.
 prospects for computers at rolling mills
 weighed, USSR study, 11328

Electronic computers—Continued
 simulation, investigation of utility of computer simulation to predict ship structural response in waves, 13109
 spaceborne multiprocessing study, technical description, 1005
 spacecraft analog-to-digital conversion system employing MOSFETS, 11457
 study of acquisition of peripheral equipment for use with automatic data processing systems, GAO report, 11227
 tables of bias functions, B, and B₀, for variances based on finite samples of processes with power law spectral densities, 4765
 time-shared computer system to control Hall effect experiment use, 17265
 usage for evaluation of design parameters and cost of heat exchangers, with change in phase on shell side, 11381
 use to describe fishing grounds, USSR study, 17134
 uses, evaluation of design parameters and cost of heat exchangers, 4620
 USSR abstracts, 3564
see also Cybernetics.

Electronic cross sections, *see* Cross sections.

Electronic data processing systems:
 ADP systems, multicommand, development and maintenance, Army pamphlet, 15046
 Air Force worldwide personnel data system, 74
 Army information and data systems, change, 7659
 automated control, data processing, progress made, USSR study, 12934
 automatic control developments, USSR study, 2097
 automatic data processing orientation, training, 10516
 automatic data processing systems and procedures—
 base level EDP procedures, HAF-EG reporting system, 5076-77
 PCAM (punched card accounting machine) utilization, 16238
 calculating equilibrium compositions of multiconstituent, multiphase, chemical reacting systems, 10058
 census tabulation available on computer tape series, 13771-772
 computer-aided reliability data analysis, introduction, 5995
 computer mechanization of 6-degree of freedom flight equations, 10084
 computer processing of statistical information, some problems, USSR study, 7150
 data handling equipment, electronic equipment modifications handbook, 14188
 DIB computer news, 304
 District of Columbia, selected automatic data processing activities, GAO report, 12749
 electronic data processing equipment for census '70, 15118
 equipment, Federal item identification guides for supply cataloging, supplements, 2849
 establish in Congress—
 hearing, 9350
 report, 9305
 establish in National Science Foundation for research data, hearings, 12214
 Federal information processing standards publications, FIPS pubs, 2283, 6039-44, 7320, 11514
 flight, system shakedown tests, aircraft, NAS en route stage A model 1, functional package A, 15693
 hand-printed input for on-line systems, 7228
 highway planning, coordinated data system for, 7436

Electronic data processing systems—Con.
 inventory of equipment in Federal Government, 4286
 MCDIT 21, computer code for one-dimensional elastic wave problems, 11404
 MILSCAP, military standard contract administration procedures, DoD data system, over-view, etc., 552
 new Florence case study for 1970 census of population and housing—
 data-collection operations, 7750
 data processing, 7751
 NOBAC's data processing systems, user's guide, 11560
 processing of digital data logger STD tapes at Scripps Institution of Oceanography and Bureau of Commercial Fisheries, La Jolla, Calif., 13823
 study of acquisition of peripheral equipment for components, GAO report, 11227
 summary tapes—
 second count from 1970 census of population and housing, 13771
 third count (block) from 1970 census of population and housing, 13772
 system for classifying wood-using industries and recording statistics for automatic data processing, 11183
 systems approach to recovering gold resources in Jefferson County, Mont., 16104
 tagged arithmetic, 14619
 urban and regional information systems, support for planning in metropolitan areas, 5749

Electronic equipment:
 census '70, electronic data, processing equipment, 15118
 components and assemblies, control over repairs, Navy Dept., GAO review, 7027
 components, Federal item identification guides for supply cataloging, supplements, 2846
 electronic and electrical component parts, test methods, military standard, 9523
 electronic products radiation hazards, review, hearing, 12233
 fire protection, 15791
 guided missiles preferred items list, military standard, 5508
 holders, retainers, and shields for electrical and electronic equipment, Federal item identification guide, 15504
 maintenance, calibration and repair, measurement data, military standard, 14109
 modification handbook, data handling equipment, 14188
 radiation emissions, control, annual report, 10694
 radio engineering microelectronic equipment, components for functional synthesis USSR study, 15940
 selected electronic and associated products, current industrial reports, 7738
 change, 9142
 shipboard—
 maintainability design criteria handbook for designers, 7390
 naval vessels, 13272
 standard general requirements, military standard, 16926
 test provisions for electronic systems and associated equipment, design criteria for, military standard, 1787

Electronic switches:
 parameters affecting firing time of simultaneously triggered trigatron spark gap switches, 7263
 switch, rotary, Federal item identification guide, 15520

Electronics:

- communications, activities, terminology, Air Force manual, 9001
- East European abstracts, 2780
- electronic applications to aeronautical display and control problems, study, 4670
- electronic landings, takeoffs described, USSR study, 2078
- electronic products, radiation hazards, review bearing, 12233
- for hospital patient care, 1337
- installation and maintenance book, change, 4834
- manufacturing occupations, employment outlook, 4576
- microelectronic device data handbook, text, 995
- national conference committee, American Association of State Highway Officials, proceedings, 1361
- publications, price list, 8791
- radio engineering microelectronic equipment, components for functional synthesis, USSR study, 15940
- satellite observations, preprocessing procedures, 1011
- shipments of selected electronic components, 1960-67, consolidated tabulation, 3827
- Soviet electronic industry, Japanese survey, 15925
- structure of atoms, and Mendeleev's periodic law, USSR study, 15960
- TAMIS and subsystem components, immunochemical and electronic methods, 80
- thin-film microelectronics, engineering fundamentals, USSR study, 2052
- USSR—
 - abstracts, 3565
 - Academy experiments with electronic techniques, 15971
 - industrial development, translations, 3558
- see also Electronic equipment—also subjects in which electronics are used.
- Electronics assemblers, training course, suggested guide, 4168
- Electronics Committee, American Association of State Highway Officials, proceedings, national conference, 14818
- Electronics mechanics, training course, suggested guide, 14134
- Electrons:
 - electron analog simulation of ion containment in magnetic fields, analysis, 8653
 - electron-content variations and change rates obtained by measurement of Faraday rotation of 137-MHz radio waves transmitted from ATS-1, 11566
 - electron transmission and bremsstrahlung production, experimental study, 14572
 - electronic component of thermal conductivity in semiconductors, 1572
 - free, interaction with intense laser beams, 10128
 - free-stream, concentration in arc-heated wind tunnel and correlation of Langmuir probe and microwave interferometer measurements, 17245
 - glass coated electron-bombardment ion thruster grids, fabrication process, 13107
 - interaction in matter, investigation, 1017
 - mathematical techniques for EPR [electron paramagnetic resonance] analysis of S-5/2 ions in C_2 symmetry, application to Fe^{3+} in quartz, 11523
 - method of external injection of electrons into closed toroidal systems, 15072
 - MHD generator cathodes emitting in spot mode, analytical and experimental studies, 16169

Electrons—Continued

- plasma electron confinement region for electron-cyclotron resonance in magnetic trap with plugs, 5139
- rate coefficient relevant to H_2 UV laser, 10251
- satellite ion-electron collector, experimental effects of grid transparency, photoemission, and secondary emission, 6913
- silicon electron detector, tables of response functions, 11673
- temperatures, determination between 50 keV and 100 keV from X-ray continuum radiation in plasmas, 6139
- topics in electron scattering and nuclear models, notes on lectures at NRL, 1264
- transmission, through thick silicon targets, 6019
- Electrooptics:
 - electro-optical method for proving surface nature of rigid electric dipole of arbitrary colloidal particles of water, USSR study, 4435
 - electrooptical properties of lyophobic colloids, USSR study, 5825
- Electrophoresis:
 - apparatus and exploratory equipment, biophysical studies of microbial cell walls, 10252
 - continuous particle, for rapid identification of micro-organisms, 102
 - gel, estimation of serum proteins by quantitative densitometry, 6421
- Electrophotometers, see Photometers.
- Electroplating, employment outlook, 4506
- Electroplating, Watts nickel electroplating bath, meta-benzenedisulfonic acid as stress-reducing additive, evaluation, 16152
- Electrosorption, and desorption process for demineralization, 4404
- Electrostatic precipitators, high-temperature, operating characteristics, 11391
- Electrostatists:
 - interaction between ion flux and target plasma during charge exchange, 5144
 - measurements of electrostatic fields in earth's upper atmosphere, 12957
 - static electricity, explanations, 17144
- Electrowinning, see Electrolysis.
- Elementary and Secondary Education Bureau, programs, 8164
- Elementary education:
 - behavioral science elementary teacher education program, final report, 8163
 - compensatory, program, 6868-78
 - elementary and secondary construction act of 1969, hearings, 15314
 - elementary and secondary education act—amendments of 1969—
 - hearings, 5372, 6709, 15473, 16891
 - reports, 6695, 7891
 - handicapped children, selected projects, 14143
 - PACE, projects to advance creativity in education, supplementary centers, and services, etc., 5550
 - program guides, nos. 41 and 45-A, 14144
 - title 1—
 - ESEA migrant coordinators meeting report, 8174
 - ESEA, review and forward look, 1969, annual report, 4638
 - history, 10982
 - profiles in quality education, 150 outstanding ESEA projects, 585
 - statistical report, 15643

Elementary education—Continued

- title 2
 - annual report, 6886
 - 9 elementary school media centers in 3 inner cities, descriptive case studies, 10976
 - school library resources, textbooks, and other instructional materials, special-purpose grant programs, descriptive case studies, 12430
- title 3, central city educational projects, 5535
- title 5, grants to strengthen State departments of education, administration of programs, notes and working papers, 1742
- elementary and secondary education, human investment programs, 4378
- elementary teacher training models, 9 programs submitted to Education Office, 16957
- free public elementary and secondary education, 1966-67, current expenditures by local educational agencies, 4164
- Human Rights Year, 1968, suggested activities and reading materials for elementary schools, 2398
- model elementary teacher education program, 5547
- nonpublic school directory, 1815
- PACE report, 4861
- preprimary enrollment of children under 6, description of survey, 4181
- public schools, pupils, teachers, etc., fall 1968, statistics, 9652
- school teachers, preparation model program, 1812
- teachers—
 - competency based, field centered, systems approach to education, 4163
 - specifications for comprehensive elementary teacher education programs, 5540
 - specifications for comprehensive undergraduate and inservice education program for, 588
- see also* Schools.
- Elements:
 - ductilizing of group via elements by rhodium and other solutes, review, 2254
 - simulated circular-arc elements on conical surfaces, computer program for composing compressor blading form, 16183
- Elements (chemical), *see* Chemical elements.
- Elevated calf pens, 10489
- Elevations, *see* Altitude.
- Elevator constructors, *see* Mechanics (persons).
- Elevator operators, job grading standard, 12049
- Elevators:
 - classification definitions, 1285
 - deflected-elevator flutter on t-tail airplane, wind tunnel study, 4746
 - see also* Grain elevators.
- Elger, Gerald W., removal of nonferrous metals from synthetic automobile scrap on heating in rotary kiln, 2177
- Elgin, A. F., and wife, relief, 6606, 13834, 13971
- Elgin, Tex., railroad accident, report, 11091
- Elikan, L., solid electrolyte system for oxygen regeneration, 11413
- Elizabeth, N.J., motor carrier accident, 11395
- Elk:
 - aspen grove in southwestern coniferous forests, 14281
 - habitat management, 14864
 - ponderosa pine forest in Arizona—
 - before and after timber harvest, 14282
 - thinning, clearcutting, and reseeding affect use, 5671
- Elk River power reactor, *see* Reactors (atomic).

- Ellender, Allen J.:
 - review of United States foreign policy and operations, 6734
 - print additional copies, report, 9422
 - print as Senate document, report, 8021
- Ellinger, Werner B., classification, class K, subclass KF, law of United States, 14482
- Ellington, R. C., development of water purification systems based on reverse osmosis, 9956
- Elliot, James E., anomalous concentrations of gold, silver and other metals in Mill Canyon area, etc., 743
- Ellipses, intermediate coasting ellipse, two-burn escape maneuvers, 4737
- Ellipsoidal velocity distribution function, 5998
- Ellipsometers:
 - measurements, FORTRAN program for analysis, 16227
 - errata, 16227
- Ellis, Davis W., floodflows from small drainage areas in Illinois, preliminary flood-frequency relations, S344
- Ellis, Robert J., return and behavior of training and degree of simulation, performance of non-jet experienced pilots versus simulation fidelity, 1255
- Ellis, Robert J., return and behavior of adults of 1st filial generation of transplanted pink salmon, and survival of their progeny, Sashin Creek, Baranof Island, Alaska, 16715
- Ellis Island (vessel):
 - ferryboat, transport to hope, 13186
- Ellison, James C., experimental stagnation-point velocity gradients and heat-transfer coefficients for family of blunt bodies at Mach 8 and angles of attack, 11444
- Ellsperman, L. M., asphaltic membranes for water seepage control, 14826
- Ellwood Canyon, Santa Barbara County, Calif., reconnaissance of ground-water resources, S356
- Elman, H. L., prediction of rotor instability at high forward speeds, 7670
- Elm Fork Trinity River, Trinity River basin Tex., 1966, compilation of hydrologic data, 11238
- Elongated-member-driving apparatus, classification definitions, 11576
- El Paso, Texas, elderly Mexican-Americans, Federal programs and services, availability and usefulness, hearings, 12282
- El Salvador:
 - background notes, 6268
 - plant quarantine import requirements, 16
 - records of Dept. of State, pamphlet accompanying microcopy, political relations, 1910-29, with U.S. and with other States, 7338
- Elton, R. C., determination of electron temperatures between 50 eV and 100 keV from X-ray continuum radiation in plasmas, 6139
- Eluex process test circuit, *see* Circuits.
- Elution, *see* Separation processes.
- Elytroderma needle blight, disease of ponderosa pine in Pacific Northwest, 12711
- EM series, 5570
- Emanation isotopes, *see* Radon.
- Embankments, slopes and embankment foundations, stability analysis electronic computer program for, 16382
- Embassies, *see* Foreign Service.
- Emblems, international distinctive signs and emblems, military standard, 550
- Embolism, extra-alveolar air resulting from submarine escape training, post-training roentgenographic survey of 170 submariners, 7198
- Embrittlement, *see* Fracture of metals.
- Emergencies, *see* Disasters.

Emergency boards :

reports—

Illinois Central Railroad Company,
Louisville & Nashville Railroad Com-
pany and Belt Railway Company of
Chicago, 4191
Long Island Railroad Company, 10992
National Railway Labor Conference,
8177-78

Emergency Justice Project Task Force, staff
report to District of Columbia Committee
on Administration of Justice Under
Emergency Conditions, 13322

Emergency Planning Office:

change name to Emergency Preparedness
and Federal-State Relations Office, 1690
press releases, 3280

Emergency Preparedness and Federal-State
Relations Office, designate, 1690

Emergency Preparedness Office :

appropriations, 1970, hearings, 9332,
12285

Assistant Director, nomination of—

Boe, Nils A., hearings, 9447

Lindjord, Haakon, hearings, 12286

O'Connell, James D., hearings, 9452

Deputy Director, nomination of Fred J.
Russell, hearing, 5429

director, nomination of George A. Lincoln,
hearing, 4070

Federal disaster assistance to State and
local governments, 12744

procuring and stockpiling jewel bearings,
GAO report, 8331

Emergency services :

health services glossary, 14788

medical services, report, 16243

Emergency Transportation Office, OET train-
ing conference, National Headquarters
element, proceedings, 16505

Emery, Harlan J., dairy price support and
related programs, 1949-68, 10968

Emigration, *see* Immigration and emigration.

Eminent domain :

equitable acquisition practices, fair com-
pensation, uniform relocation assistance,
hearings, 8074

highway condemnation law and litigation
State by State summary of cases re-
ported, 1946-61, lists, 1360

procedural guide for acquisitions of real
property by governmental agencies,
4458

Emissions :

air pollution—

emissions from coal-fired power plants,
comprehensive summary, 17336

hydrochloric acid manufacturing pro-
cesses, 17345

trends in control regulations (paper),
13378

aircraft engine exhaust, nature and con-
trol, IFEW report, 5392

print as Senate document, report, 6756

alpha, absolute measurement, 3801

angular positions of X-ray emission lines
of elements for common analyzing
crystals, 4621

atmospheric emissions from thermal-
process phosphoric acid manufacture,
1342

direct-current arc and alternating-current
spark emission spectrograph field meth-
ods for semi-quantitative analysis of
geologic materials, 11234

emissivity coatings for low temperature
space radiators, 16136

field emission energy distributions,
molecular vibration spectra, 16174

high-emittance coatings, testing, 16132

line emission sources for concentration
measurements and photochemistry,
7325

Emissions—Continued

Milli generator cathodes emitting in spot
mode, analytical and experimental
studies, 16169

national emission standards act, law,
compilation, 493, 5458

search for low emission vehicle, staff
report, 8059

solar X-ray emission during flight of
Apollo 8, 13304

see also Electrons—Photoelectric emis-
sion.

Emission spectra, *see* Spectra.

Emittance :

high, materials, properties, 5979

improved total hemispherical emittance
transient calorimeter, design and uncer-
tainty analysis, 8619

Emitters :

thermionic converter with—

chloride vapor deposited tungsten emitter
(110) and nickel collector, characteris-
tics, 14587

fluoride vapor deposited tungsten emit-
ter etched to preferentially expose
110 crystal planes, characteristics,
14571

Emotions :

mental and emotional illnesses in young
child, 6185

relationship of galvanic skin response to
emotion-evoking properties of words,
11373

Emphasis on excellence in school media
programs, 12430

Emphysema, chronic respiratory diseases,
current research, 11th Aspen Emphysema
Conference, 1968, proceedings, 6175

Empire quadrangle, Colo., geology, 14349

Empirical equations, *see* Equations.

Empirical observations on sensitivity of hot
cathode ionization type vacuum gages,
11484

Employee benefit plans :

code of Federal regulations, 8222

employee benefit plans, 1967, 8858

metropolitan areas, 1967-68, wages and
related benefits, 8547

welfare and pension plan protection act
of 1968, report, 371

Employee pensions, *see* Pensions.

Employee suggestions, *see* Suggestion
systems.

Employee training, 1969-70 labor, man-
power, and price statistics training pro-
gram for statisticians and economists of
other countries, 8557

see also Apprentices.

Employees :

drinking, key step, program to combat
problem, 5261

earnings and hours, retail trade, 894, 4593

food stores, 893

employee compensation, 1966 in private
nonfarm economy, 14458

moving expenses, tax information, etc.,
12336

numbers and characteristics in institu-
tions of higher education, 6884

withholding taxes from your employee's
wages, 12841

see also Airline employees—Government
officials and employees—Labor—Rail-
road employees—*also* names of depart-
ments, etc., where employed.

Employees' Compensation Appeals Board :
decisions, 5561-62

Employees Compensation Bureau, reducing
costs of hospitalization, medical services,
and drugs provided to Federal employees
for job-related disablements, GAO report,
9877

Employer-employee relations, *see* Industrial
relations.

INDEX 1969

Employers:

- contributions to educational trust funds, etc.—
 - hearings, 9342, 9481
 - reports, 10714, 12261, 15283
- contributions to jointly administered trust funds for product promotion, permit, report, 16817
- guide to on-the-job training under Manpower development and training act, 8532
- household workers, social security statistics, 10372
- job rights of National Guardsmen, reservists and their employers, 5002
- moving expenses, tax information, etc., 12836
- records kept under Fair labor standards act, 7561
- Employers' liability and workmen's compensation:
 - benefits for law enforcement officers, facts about compensation for non-Federal law enforcement officers, 4192
 - employee compensation programs in railroad industry, joint labor-management improvement program, 4272
 - Federal employees' compensation act—
 - how to help injured employee, supervisors handbook, 7083
 - medical facilities available to employees injured in performance of duty, 16966
 - number, duration, etc., of injuries to civilian employees, 15645
 - work injuries sustained, 5563, 16965
 - mining industry employees, coverage and benefits under State laws, encourage improvement, hearings, 15311
 - publications, price list, 4866
 - workmen's compensation claims arising from exposure to asbestos and beryllium, parallel study, 206
 - workmen's compensation payments and costs, 2458
- Employment:
 - adequacy of service for older workers, hearings, 455
 - Air Force postservice employment assistance program for overseas terminal assignees, 10519
 - Alaska natives and Federal hire, 12610
 - aliens approved by occupation and by continent of birth, tables, 10012
 - aliens in scientific or technical capacity by Secretary of Commerce, report, 10857
 - area trends in employment and unemployment, 2601, 14943
 - Army Materiel Command, current openings, GS-11 and above, bulletin, 2793
 - EDA building communities with jobs, 14118
 - challenge from Nixon Administration (address), 7162
 - change to advance, activities under manpower development and training act, annual report, 8385
 - changing patterns in New York City, facts, 16028
 - characteristics, junior college teachers of science, engineering, and technology, 6098
 - city government employment, 10608
 - coal mines, monthly report, 2665
 - Coast Guard use of military personnel in civilian-type positions, GAO follow-up review, 11215
 - concentrated employment program—
 - Detroit, Mich., effectiveness and administrative efficiency, GAO report, 17062
 - Los Angeles, Calif., effectiveness and administrative efficiency, GAO report, 17063
 - concentrated program, total service for unemployed and underemployed, 4461

Employment—Continued

- data and expenditures for criminal justice activities of large governmental units, 6507
- errata, 9165
- do you want a job? 7138
- EDA, building communities with jobs, 16938
- education, employment, and Negro equality, seminar on manpower, 883
- employ/re-employ veterans, time to serve them, 16005
- employment and earnings, and monthly report on labor force (periodical), 2791
- employment and stabilization policy (paper), 4282
- employment situation, monthly release, 2796
- engineers, scientists, technicians, 14146
- EPA, equal opportunity, 4248
- farm labor developments, 2821
- Federal—
 - accent on youth, disadvantaged, etc., 15148
 - blue collar jobs, upturn, emergency needs of Defense Dept., 2124
 - civilian, in U.S., by geographic area, annual report, 5267
 - employment of the handicapped, conference highlights, 283
 - employment statistics bulletin, 2838
 - equal opportunity, newsletter, 2802
 - monthly report, 3140
 - physically handicapped, mentally retarded, mentally retarded, rehabilitated offender selective placement, handbook, 15142
 - work injuries sustained, reports, 5563, 16965
- fellowships and summer stipends for younger humanists, 14678
- finding jobs for Negroes, ideas for management, 11331
- for guys and gals who are looking for summer jobs, 11598
- government employment series, 7748, 10608
- grade trend of Federal civilian employment under general schedule, 10628
- green card aliens during labor disputes, hearings, 13926
- help wanted, or is it? job inequalities, 1844
- helping workers locate jobs following plant shutdown, 8563
- hope for tomorrow, Mississippi, Delta, 2102
- how mechanization of harvesting is affecting jobs, 8560
- HRD employability model, guidelines, 4196
- insured employment in major areas, monthly tabulation, 3541
- Internal Revenue Service, we thought you'd never ask, 5781
- job creating programs, EDA economic development districts, 12389, 15534
- job development for hard-to-employ, 14441
- job gains of Mexican-American men, 898
- job grading standard, civil service—
 - food service worker, 284
 - janitor, 285
 - laborer, 286
 - laundry worker, 1644
- job in neighborhood health centers, Federal programs which may support training of neighborhood residents, 6850
- job opportunities, tax credits to stimulate industrial and commercial establishments in rural areas, hearings, 10896
- job patterns for minorities and women in private industry, 4226
- job program, assault on hard-core jobless problems, 15997
- job situation in New York City, facts, 14475-476
- job trends in New York City, facts, 14477

Employment—Continued

jobs—

apprenticeship training available, 4605
college education usually required, 4606
high school education generally required, 4607
high school education preferred, but not essential, 4608
junior college, technical institute, or other specialized training usually required, 4609

JOBS '70, introducing programs, 17139

jobs and civil rights—

equal employment opportunity programs and activities of Federal Government, study, 7763
role of Federal Government in promoting equal opportunity in employment and training, 7762

major local governments, census statistics, 7737

making the scene in jobs, school, training, through Neighborhood Youth Corps, 4464

manpower services, reference guide to job recruitment, training, and placement aids, 5883

manufacturing, changes in structure, 1630

matching sheepskins with jobs, employment outlook for college graduates, 5910

mentally handicapped, fresh views, special report (periodical), 3452

mentally restored, involvement for community organizations (periodical), 3009

naval personnel, retired, reference guide to legal restrictions, 12958

New York City—

changing patterns, 12981

facts, 14474, 16029

Northwest forest industries, 3337

now, about that job, A B C's for veterans, 16525

occupational employment patterns for 1960 and 1975, 4595

opportunities—

educators overseas, 556A

Public Roads Bureau, 16383

selected Indian reservation program, 14119

outlook—

accountants, 4473

advertising, marketing research, public relations workers, 4474

agriculture, 4567

air conditioning and heating mechanics, 4475

aircraft, missiles, and spacecraft manufacturing occupations, 4568

aluminum industry, 4569

apparel industry, 4570

appliance servicemen, 4476

architects, 4477

asbestos and insulating workers, 4535

atomic energy field, 4571

automobile service and sales occupations, 4478

baking industry, 4572

banking, 4573

barbers, cosmetologists, 4479

biological scientists, 4480

boilermaking occupations, 4481

bookkeeping workers, office machine operators, 4482

bowling-pin-machine mechanics, 4483

bricklayers, stonemasons, tile setters, terrazzo workers, 4484

business machine servicemen, 4485

carpenters, painters, paper hangers, glaziers, 4486

cashiers, 4488

cement masons, plasterers, lathers, 4487

chiropractors, 4489

civil aviation, 4574

clergy, Protestant clergymen, Rabbis, Roman Catholic priests, 4490

Employment—Continued

outlook—continued

commercial artists, industrial designers, interior designers and decorators, 4491

conservation occupations, 4492

construction laborers, 4515

counseling and placement, 4493

dental hygienists, 4494

dental laboratory technicians, 4495

dentists, 4496

diesel mechanics, farm equipment mechanics, 4497

dietitians, 4498

dispensing opticians, and optical mechanics, 4499

driving occupations, truck, bus, and taxi drivers, routemen, 4500

earth scientists, geologists, geophysicists, meteorologists, oceanographers, 4501

electric power occupations, 4575

electric sign servicemen, 4502

electricians (construction), 4503

electronic computer operating personnel, programmers, systems analysts, 4504

electronics manufacturing occupations, 4576

engineers, aerospace, agricultural, ceramic, civil, chemical, electrical, industrial, mechanical, metallurgical, mining, 4505

F.B.I. special agents, 4507

factory operatives, assemblers, electroplaters, inspectors, power truck operators, production painters, 4506

firefighters, policemen, policewomen, 4508

floor covering installers, 4509

forging occupations, blacksmiths, 4510

foundry occupations, 4577

furniture upholsterer, 4511

government occupations, 4578

home economists, 4512

hospital administrators, 4514

hotels, 4579

industrial chemical industry, 4580

insurance occupations, 4581

iron and steel industry, 4582

landscape architects, 4516

lawyers, 4517

librarians, 4518

machining occupations, instrument makers, machinists, machine tool operators, tool and die makers, setup men, layout men, 4519

maintenance electricians, industrial machinery repairmen, millwrights, 4520

mathematics and related fields, mathematicians, statisticians, actuaries, 4521

medical record librarians, 4522

medical technologists, medical laboratory assistants, 4523

medical X-ray technicians, 4524

motion picture projectionists, 4525

motor vehicle and equipment manufacturing, 4583

newspaper reporters, technical writers, 4526

nurses, registered professional, licensed practical, and hospital attendants, 4545

occupational therapists, physical therapists, 4527

operating engineers (construction machinery operator), 4528

optometrists, 4529

osteopathic physicians, 4530

performing artists, 4531

personnel workers, 4532

petroleum and natural gas production and processing occupations, 4584

pharmacists, 4533

Employment—Continued

outlook—continued
 photographers and photographic laboratory occupations, 4534
 physical scientists, chemists, biochemists, physicists, astronomers, 4537
 physicians, 4538
 plumbers and pipefitters, 4535
 podiatrists, 4539
 post office occupations, 4586
 printing occupations, 4536
 private household workers, 4513
 psychologists, 4540
 pulp, paper and allied products industry, 4585
 purchasing agents, industrial traffic managers, 4541
 radio and television broadcasting, 4587
 railroad occupations, 4588
 real estate agents and brokers, 4542
 receptionists, 4543
 recreation workers, 4544
 restaurant occupations, 4589
 sanitarians, 4547
 securities salesmen, 4548
 sheet metal workers, roofers, 4550
 shipping and receiving clerks, 4549
 shoe repairmen, 4551
 social scientists, anthropologists, economists, geographers, historians, political scientists, sociologists, 4552
 social workers, 4553
 speech pathologists and audiologist, 4554
 stationary engineers, stationary firemen, 4555
 structural and other iron workers, stenographers, secretaries, typists, 4556
 structural and other iron workers, elevator constructors, 4557
 surveyors, 4558
 teachers, 4559
 technicians, engineering and science, and draftsmen, 4560
 telephone occupations, 4590
 television and radio service technicians, 4561
 tomorrow's job, 4472
 urban planners, 4562
 vending machine mechanics, 4563
 veterinarians, 4564
 watch repairmen, jewelers and jewelry repairmen, instrument repairmen, 4565
 welders, oxygen and arc cutters, 4566
 policies of United States and Japan, report, 12960
 policy and supporting positions, 414
 poor, programs for, community action program, manpower guidebook, 10962
 potential of United States, Mexico border, 1798
 private nonfarm economy, 1966, employee compensation 14458
 public, 7748
 public, compendium, 10598
 public income-maintenance programs, effect of age and disability on access to, 1394
 reservation industrial employment, social and economic effects on Indian employees and their families, 9950
 retired military personnel in Federal jobs, questions and answers, 13794
 retirement plans for self-employed owner managers, 13412
 return to work after severe disability, follow-up of 1963 Levenson and Green study sample, 6230
 returning Peace Corps volunteers, Federal service opportunities, 13791
 right job, guide for returning servicemen, 6345
 scientists and engineers in United States, 4810

Employment—Continued

security automated reporting system, ESARS handbook, 14435
 security programs, Federal-State, funds to finance cost of administering, hearing, 7980
 self-employed individuals—
 definition of earned income for pension plans, report, 449
 pension, annuity, etc., income tax, 809
 reporting their income, special information, 4941
 retirement plans, 4417
 self-employment, tax information, 8433
 seriously handicapped and voluntary health agency, proceedings of panel discussion, 1320
 State and local government employment and payrolls, 3457
 statistics, bibliography, 8558
 statistics, Middle Atlantic region, 1958–66, compilation, 12979
 students, full-time, in retail or service establishments at special minimum wages, 1490
 summer jobs for students and how to find them, 8541
 summer '68, 7407
 summer youth opportunity program, Transportation Dept., 1968 annual report, 11751
 supervising the hard core, management guidelines, 16004
 underground in mines, minimum age, International Labor Organization convention, 6574
 veterans, employment benefits and opportunities for Vietnam era veterans summary, 7558
 veterans' job rights, facts, 2539
 widowed mothers, facts, 16417
 women in Federal Government, study, 15149
 workers covered by State unemployment insurance laws, 2792
 workers under social security, 1960, annual and work history statistics, 2461
 youth opportunity centers, focus on youth and jobs, 5889
see also Child labor—Discrimination in employment—Government officials and employees—Handicapped—Labor—Manpower—Occupations—Veterans—Work.
 Employment, Manpower, and Poverty Subcommittee, Senate, legislative history and activities, 4091
 Employment Opportunity Commission, appropriations, 1970, hearings, 16878
 Employment outlook for tomorrow's jobs, 4472
 Employment security activities, *see* Unemployment insurance.
 Employment Security Automated Reporting System, ESARS, management information system for employment security, handbook, 14435
 Employment Security Bureau :
 appropriations, 1969, supplemental law, 6562
 BES series, 593, 5564, 12444
 MFTA handbook, 16967
 text research reports, 594
 Employment Service :
 employment service review, 2794
 IIRD employability model, guidelines, 4196
 renorming statistical typing test, 594
 statistics (periodical), 2795
 U.S., and State employment services 1958–67, manpower and operations research studies of, bibliography, 593

- Employment taxes :
 internal revenue bulletin, cumulative index-digest supplement system, 12831, 15867
 IRS loose leaf regulations system, 3089, 5769, 7095, 11295
 rates by industry, 5567
 unemployment insurance tax rates by industry, 12445
- Emulsions :
 asphalt and wax, effect on moisture changes in slash, 17051
 demulsification of fuel emulsions by coalescence process, conceptual design study, 11955
 optimization of JP-4 fuel emulsions and development of design concepts for their demulsification, 5129
 ultrasonically formed laboratory oil recovery tests with, 14559
- Enamel, *see* Teeth.
- Encephalitis :
 annual summary, National Communicable Disease Center neurotropic viral diseases, 13357
 reported anthropod-borne encephalitis in horses and other equidae, 13555
- Enclosures :
 balloon-type, for thermal control of satellites, experimental and analytical investigation, 11458
 thermal radiation heat transfer exchange theory, 10096
- End Results Group, 1967 code manual, 1191
- Endocarditis, *see* Heart disease.
- Endocrines, *see* Endocrinology.
- Endocrinology :
 endocrine-metabolic—
 parachuting, responses, 103
 sequential decompression response during simulated orbital flight, 97
 transatlantic helicopter flight effects, 101
 index (periodical), 2797
 Endodontics, *see* Dentistry.
- Endotoxins, bacterial reports, soil, USSR, 850
- Energetics of percussive drills, 10054
- Energy, *see* Atomic energy—Electricity—Force and energy—Radiant energy—Thermal energy.
- Energy absorption, impact energy-absorbing strut employing tube cutting, 2243
- Energy resources, *see* Power resources.
- Eng Hon Chun, relief, 8013
- Engelbart, D. C., human intellect augmentation techniques, 4682
- Engelken, Edward J., automatic detection and display of arrhythmias in long-term ECG tape recordings, 9011
- Engen, Glenn F., introduction to description and evaluation of microwave systems using terminal invariant parameters, 17262
- Engineering :
 administration, Navy training text, 6132
 Air Force Science and Engineering Symposium, proceedings, 7633-34
 Alaska, permafrost and related engineering problems, 12786
 antenna engineering, development, USSR study, 12953
 approach to providing for public safety in nuclear industry (remarks), 9083
 baccalaureate sources of science and engineering manpower, 4815
 careers, examination announcement, 276, 9187
 Coast and Geodetic Survey, science and engineering presentations, digest, 295
 cold regions science and engineering, 3751, 6431, 7651, 15040, 15652
 defense communications system, installation standards, manual, 5474, 15491
 design handbook, 9028
 East European abstracts, 2781
- Engineering—Continued
 education, bioengineering impact, conference, proceedings, 185
 effect of solar radiation on processed snow in engineering construction, 1577
 engineering monographs, 1364, 10347
 evaluation of tsunami of 1964 Alaskan earthquake, 4198
 fundamentals of thin-film microelectronics, USSR study, 2052
 journal of research, National Bureau of Standards, 3026
 junior college teachers, 1967, experience and employment characteristics, 6098
 Nimbus II, launch through orbit 5275, report and flight evaluation, 4702
 Post Office Dept., Research and Engineering Bureau, career opportunities, endless challenge, 2393
 public health engineering abstracts, index, 2425
 publications, price list, 2406
 Reclamation Bureau research progress, report, 4910
 role in Contract Administration Services, DoD Contract Management Conference, 1777
 sciences, Air Force research objectives, 1969, OAR, 15016
 SCS national engineering handbook, 11672, 13443
 social aspects of engineering education (address), 16709
 support and research participation of young and senior academic staff, 2323
 technical aids, opportunities, examination announcement, 15145
 technical assistant, examination announcement, 16694
 trainees in vacation work-study programs, examination announcement, 12053
 USSR abstracts, 3566
 Weather Bureau engineering handbook series, 1491
see also Agricultural engineering—Bio-medical engineering—Civil engineering—Electric engineering—Environmental engineering—Mining engineering—Nuclear engineering—Systems engineering—Value engineering.
- Engineering equipment :
 East European abstracts, 2781
 USSR abstracts, 3566
- Engineering equipment operators :
 examination announcement, 7771
 amendment, 12039
 job grading standard, 7778
- Engineering geology :
 contributions to engineering geology (series), 4349
 northern part of Pueblo, Colo., 14330
 Paducah East quadrangle, Ky., 4349
- Engineering psychology, effects, technical progress examined, USSR, conference report, 15991
- Engineers :
 America's, characteristics, 1960 and 1962 postcensal survey, 13775
 career opportunities, Rural Electrification Administration, 7443
 civilian career opportunities, Navy Department, 2360
 compensation, 1968 national survey, 9082
 construction engineers conference, proceedings, 13393
 continuing education for R & D careers, exploratory study, 16280
 design administration, GSA handbook, 6166
 employment in United States, 4810
 engineers and related professions examination announcement, revised, 6521
 engineers from abroad, 1966 and 1967, as immigrants, 10211
 Federal jobs, big pond, 9191, 16689
 Forest Service career opportunities, 3650
 job market, 14146

- Engineers—Continued
nuclear defense design, professional development courses, 13781
pay, national survey, 4597
publications of interest to, list, 4298
research and development in industry, Jan. 1968, preliminary report, 10210
role in socio-economic development of cities (speech), 766
so you're a scientist or engineer now, career opportunities in Air Force, 6422
Soil Conservation Service, 13596
see also Aerospace engineers—Agricultural engineers—Ceramic engineers—Chemical engineers—Civil engineers—Electric engineers—Flight engineers—Highway engineers—Industrial engineers—Mechanical engineers—Metallurgical engineers—Mining engineers—Operating engineers—Sanitary engineers.
- Engineers Corps, Army:
amphibious units, field manual, change, 9034
Chief, in grade of lieutenant general, nomination of Frederick J. Clarke, hearing, 5427
development of water resources—
Delaware, 12552
Florida, 11004
Indiana, 11006
Kentucky, 11007
Louisiana, 11005
New Jersey, 12553
New York, 14154
Ohio, 11008
Puerto Rico and Virgin Islands, 12554
Tennessee, 9714
Washington State, 9715
West Virginia, 11009
financial administration, accounting and reporting, civil works activities, 8180
land acquisition for reservoir projects, GAO review, 4345
manuals, 5570
press releases, 3281
publications—
available for purchase, 1822, 12547
list, 597
regulations, ER series, 8180
report, 1967, civil works activities—
departmental edition, 1819
document edition, 1688
specific project data—
departmental edition, 5568
document edition, 5319
southwestern power system financial statements, examination, GAO report 1943
water resources functions and programs, 15664
- Engineer's digest (periodical), 2799
- Engines:
accessories, Federal item identification guides for supply cataloging, supplements, 2842
engines and components, Federal item identification guides for supply cataloging, supplements, 2842
internal combustion engines, current industrial reports, 3849
radioisotope-fueled stirling engine, application to circulatory support systems, 5178
small engine repair, suggested guide for training course, 5554
see also Rockets.—Turbines.
- Engines (aircraft):
air inlet particle separator for CV-7A aircraft, design and component test, 180
airbreathing propulsion system testing using sweep frequency techniques, 17233
aircraft engine procurement, potential for savings by reduction, Navy Dept. and Air Force Dept., GAO report, 14324
Chinook, CH-47A, engine load sharing, 3785
components, vibration and stability, investigation, 14652
- Engines (aircraft)—Continued
current industrial reports, 2732, 9127
exhaust emissions, nature and control, IIW report, 5392
print as Senate document, report, 6756
flight gas turbine engines, salt deposits in compressors, survey, 5994
fuel-control valve for use in airbreathing engine research, dynamic performance analysis, 13112
high-turbine-inlet-temperature engines in methane-fueled SST, influence when takeoff jet noise limits are considered, 2260
jet VTOL aircraft, generalized experimental investigation of hot gas recirculation and ingestion, 1003
large-scale 1,075-pressure-ratio tip-turbine cruise-fan propulsion system at angle of attack, subsonic aerodynamic characteristics, 14611
lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
M-1 facilities, hydrogen gas pressure vessel problems, 5986
Mach 2.5 axisymmetric inlet with engine or coldpipe and utilizing 60 percent supersonic internal area contraction, dynamic response, 13116
performance of swirl-can turbojet combustors at simulated supersonic combustor inlet conditions, 4726
small gas turbine engines, advanced high temperature combustor research, final report, 3783
T63 regenerative engine program, extended endurance and environmental testing, 5131
turbofan, predicting noise attenuation in acoustically treated ducts, studies, 14570
twin-jet afterbody model, effect of jet velocity and axial location of nozzle exit on performance, 16161
type certificate data sheets and specifications, 1846, 2579
see also Rockets.—Turbines.
- England, see Great Britain.
- English and metric systems of measurements, 14671
- English Channel, lights and fog signals, list, 6128, 14729
- English language:
English and Government, Federal textbook on citizenship, 15846
naturalization requirement of understanding, waive, report, 9288
- Engraving and Printing Bureau, brief history, 14157
- Enhancement of viral quantitation by media supplements and buffers, 11904
- Enlilia, see Flies.
- Enlisted personnel, see Armed Forces.
- Enochson, Loren D., programming and analysis for digital time series data, 12386
- Enrichment Services Seminar, proceedings, 7694
- Enright, Frank J., relief, 13892
- Enrollment, see Colleges and universities—Elementary education—Schools.
- Ensminger, H. R., selected bibliography of geology and geophysics for Gulf of Mexico, 13249
- Entertainers, performing artists, employment outlook, 4531
- Entertainments, see Amusements.
- Enthalpy:
empirical stagnation-point heat-transfer relation in several gas mixtures at enthalpy high levels, 1058
high-enthalpy are tunnel at Langley Research Center, including test-stream conditions at selected operating points, description, 13098
moderate in hypersonic flow, low-density, leading-edge bluntness, and ablation effects on wedge-induced laminar-boundary-layer separation, 2226

- Entrainment drying and carbonization of wood waste, 13026
 Entropies, transport of ions in aqueous saline systems, 7089
 Entry into atmosphere, *see* Atmospheric entry.
 Envelopes:
 1.6-cent stamp envelope (poster), 10275
 printed stamped envelopes, how to order, 13319
 Environment:
 aerospace, human responses to, compendium, 1024-1026, 2128
 basic environmental problems of man in space, 3d International Symposium on USSR, papers, 5821
 batch-feeding studies on high-solids activated sludge for treating human waste, 3708
 body armor in hot humid environment, studies in—
 heat acclimatized men, 16057
 unacclimatized men, 14512
 cold regions science and engineering, 15652
 conditions relating to harmful insects of mainland southeast Asia, 13657
 controlled, environmental radioiodine tests at National Reactor Testing Station, 1967 progress report, 6468
 data for XB-70 airplane cockpit, summary, 16189
 dental calculus formation rate in submarine environment, 11371
 environment—
 and health planning (address), 13343
 and what to do about it (remarks), 7716
 in which we live (remarks), 10329
 environmental aspects of operation of central power plants, 1607
 environmental contamination, clean room technology, 13061
 environmental control problems (remarks), 10320
 environmental dangers of open-air testing of lethal chemicals, hearings, 12221
 environmental effects of producing electric power, selected materials, 15215
 environmental evaluation functions, transfer to Environmental Quality Council, hearing, 12225
 environmental impact of brine effluents on Gulf of California, 9955
 environmental measurements, valid data and logical interpretation, symposium, 4878
 environmental monitoring in AUTECH, taut wire buoy array, 13231
 environmental planning (remarks), 15851
 environmental problems at Everglades National Park, hearings, 15461
 environmental protection in siting of nuclear and fossil powered plants planning (remarks), 16633
 environmental quality, national policy—
 congressional white paper, 418
 establish, hearings, 12236
 environmental quality (series), 7061, 11252
 environmental research papers, 1531-34
 environmental sciences, Air Force research objectives, 1969, OAR, 15016
 estuarine, Mobile Bay area, chlorinated pesticides, study, 11637
 factors in coastal and estuarine waters, bibliographic series, Washington State, 12657
 for innovation, Southern Forest Experiment Station, 5666
 gaseous, influence on self-adhesion of metals, 1091
 health series—
 air pollution, 4878, 10303, 17336
 radiological health, 8803, 11612-613, 13344, 14790
 urban and industrial health, 1333, 2415
 Environment—Continued
 health series—continued
 water supply and pollution control, 4879, 14791
 highways and their environmental considerations, literature references, 14815
 humane society or environmental chaos (remarks), 16348
 managing the environment, report, 3999
 MAREP, marine environmental prediction, Federal planning guide, 8676
 Mesa Verde, Colo., Wetherill Mesa studies, 16267
 meteoroid environments determined from photographic meteor data, 16205
 NAPCA, signposts of progress in conserving natural environment, 10323
 national environmental policy act of 1969, reports, 12264, 15276
 national policy—
 investigations, studies, surveys, and research, authorize, hearing, 9473
 requirements for effectiveness, report, 4086
 ocean exploration and environmental monitoring, national marine program, Marine Science, Engineering and Resources Commission panel reports, 10285
 operational, certificate judgments, 6448
 organochlorine pesticides in, 7473
 Papago Indian Reservation, premise and home environmental health survey, 13361
 pole-sized ponderosa pine, periodic growth as related to thinning and selected environmental factors, 694
 primate equilibrium platform in radiation environment, research, 1545
 quality environment in Tennessee Valley, 16501
 quality of environment vital to all, California forestry report, 7003
 radiation environment, natural, 7721
 range environmental management, 14279
 sea water corrosion control by environment modification, 11281
 serious illnesses associated with air pollution, occupational hazards, over-crowded housing, and poor sanitation (remarks), 10328
 simulation of package transfer concepts for Saturn I orbital workshop, 10107
 space environments—
 human performance, predicting, 13041
 NASA space vehicle design criteria, 1044
 simulated, effects on thermal radiation characteristics of black coatings, errata, 1046
 simulator, infrared spectral irradiance measurements, 11449
 errata, 14604
 submarine, fungal flora during prolonged submergence, 921
 three parachute configurations from supersonic flight tests in low-density environment, inflation and performance, 11487
 time series from beach environment, 611
 toward a liveable man-made world (address), 7807
 toward national policy for planning the environment (remarks), 784
 trapped radiation environment models, 11431
 tritium sources and its behavior upon release to environment, 5176
 universities and environmental quality, commitment to problem focused education, report, 16399
 see also Life support systems.
 Environmental and chemical hazards series, 886
 Environmental Control Administration, training institute, bulletin of courses, 14810

- Environmental Data Service:
 ESSA technical memorandum, EDSTM series, 11022
 ESSA technical report EDS series, 1832
- Environmental engineering:
 Federal concern for including environmental control in engineering curricula (address), 11616
 for shelters, 9178
 glossary of environmental terms (terrestrial), military standard, 6843
 Environmental health, *see* Health.
- Environmental Quality Council:
 create—
 reports, 12185, 15276
 supplemental report, 12186
 environmental evaluation functions, transfer to, hearing, 12225
 establish—
 hearings, 9473, 12236
 report, 12264
- Environmental Radiation Division, DER series, 17333
- Environmental Research Institutes, *see* Institutes for Environmental Research.
- Environmental safety, *see* Safety of life.
- Environmental Science Services Administration:
 Commissioned Officer Corps—
 act of 1968, hearings, 408
 science and service, career, 8189
 commissioned officers, appointment, promotion, separation, and retirement, legislative authority, hearings, 408
 Deputy Director, nomination of John W. Townsend, Jr., hearings, 1737
 ESSA Research Flight Facility, facilities for airborne atmospheric research, 15676
 ESSA technical reports, 8187
 ESSA world, official employee publication, 2804
 monograph, 15672
 news, 2803
 Operation Foresight, ESSA's performance before and during heavy floods in Midwest, Mar.-Apr. 1969, report, 12564
 photogrammetric program, hearings, 1706
 press releases, 3282
 technical memorandums, 611-614, 6911, 11022-24, 14163, 15673, 16971-972
 technical reports, 615-616, 1832-38, 4216-17, 5577-79, 6912-21, 9720-27, 11025-28, 12566-573, 14164-171, 15674-675, 16973
- Environmental Technical Applications Center, technical notes, 9004, 10520, 13620, 16568
- Enz, Richard W., water supply outlook and Federal-State-private cooperative snow surveys for Arizona, 3583
- Enzler, Jared J., manufacturing capacity, comparison of two sources of information, 1890
- Enzymes:
 matter and action of, concentrated in coacervates, 17255
 maximum rate kinetic analysis applied to enzyme assay data, 10046
 serum enzyme changes after physical exertion, 14504
see also Dehydrogenase.
- Eocene period:
 echinoids from Middle Eocene Lake City formation of Georgia, 1383
 paleocene and lower eocene units in southern part of Piceance Creek basin, Colo., 8339
- Ephemerides, ephemeris of sun, Polaris, and other selected stars, 17160
- Epidemics, mathematical models, USSR study, 4441
- Epidemiology:
 epidemiological factors in disability, 7458
 Journal of microbiology, epidemiology, and immunobiology, selections, 11327
- Epidemiology—Continued
 New Jersey radium cases, follow-up, progress report, 3802
 reports from world press, 2800
 research and trends, USSR study, 4439
 research, use of hospital data, report, 10337
 sheep and cattle scabies, activities, report, 6362
 theory and methods, USSR study, 12956
 theory, USSR studies, 8517
 USSR studies, 7157
- Epidemiology and Biometry Training Committee, report on status of research, 4788
- Epilepsy:
 abstract (periodical), 2801
 abstracts with indexes, 1947-67 list, 16254
- Epoxy resins, *see* Resins.
- Equal employment opportunity, *see* Discrimination in employment.
- Equal Employment Opportunity Commission:
 annual report—
 department edition, 9732
 document edition, 9255
 appropriations, 1970—
 hearings, 10767
 report, 12192
 member nomination of—
 Brown, William H., III, hearing, 8084
 Holcomb, Luther, hearing, 10916
 message to employers, 4227
- Equal opportunity, 11269
- Equal opportunity(bibliography of research on equal opportunity in housing, 11268
- Equal opportunity, fair housing laws and other Federal civil rights laws and Executive orders relating to programs of Department of Housing and Urban Development, 9944
- Equal pay for equal work, *see* Women.
- Equality of opportunity in manpower programs, report of activity under title 6 of Civil rights act, 877
- Equations:
 application of similitude to model design of soil-projectile systems, 1027
 applications of quasilinearization theory to system identification, 11489
 Arrhenius reliability extrapolation techniques, computerized, 1119
 axisymmetric and cylindrical isostabiloids, 17206
 buckling of shells of revolution with various wall constructions, errata, 16120
 calculation of organ and tissue burdens and doses resulting from acute exposure to radioactive aerosol, using ICRP Task Group report on human respiratory tract, 5157
 conduction equation for wall separating 2 fluids, 1 having oscillating temperature, convective heat-transfer coefficients from its solution, 17253
 continuity-equation plasma, oscillation, possible applications, to pulsars and other periodic astrophysical phenomena, 7264
 continuity equations of slightly ionized deuterium, neon, and helium gas, experimental observation of oscillations described, 2250
 differential—
 family of solutions of certain non-autonomous, by series of exponential functions, 4689
 flow in two-dimensional channel with rectangular cavity, 2202
 games, methods of solving, USSR study, 2064
 nonlinear heat transfer constant area fin problems, 10119
 variable mesh methods, 2203

Equations—Continued

- digital solution of modified Berggren equation to calculated depth of freeze or thaw in multi-layered systems, 5110
- empirical, for determination of maximum side-aspect strength of individual fish, 10220
- estimation of variance by recursive equation, 16198
- governing, for wave propagation in homogeneous isotropic continuous fluid, 12588
- Hodgkin-Huxley type system of differential equations, numerical treatment of thresholds and stationary values, boundedness theorems and other mathematical studies, 7226
- infinite-length solution, incompressibly lubricated Rayleigh step journal bearing, 1096
- influence of angle of glide slope on accuracy of performing instrument approaches in simulator, 1071
- integral—
 based on the integral equation for subsonic flow, development of 3-dimensional pressure-distribution functions for lifting surfaces with trailing-edge controls, 17220
 plane elasticity through modification of source density representation, improvement, 5977
 relations solution for radiating, non-adiabatic, inviscid flow over blunt body, 17230
 spherical harmonic expansion of hydro-magnetic equations, 5577
- isothermal, compressible flow across rotating sealing dams, 14614
- computer program, 16155
- Lambert's theorem, unified form, 16158
- linear—
 buckling of equatorial segment of spherical shell loaded by its own weight, 1133
 differential, with almost periodic coefficients, generalized averaging method, 7302
 relationship between complex- and envelope-covariance for Rician fading communication channels, 2224
- linearized velocity corrections, second-order errors in, and their effects on rate of convergence of iterative solutions, 6003
- low-order classical Runge-Kutta formulas with stepsize control and their application to some heat transfer problems, 11501
- memory element flip-flop input equations, 1570
- modified method of integral relations approach to blunt-body equilibrium air flow field, including comparisons with inverse solutions, 16182
- new momentum integral method for treating magnetohydrodynamic and simple hydrodynamic entrance flows, 10133
- Newtonian—
 aerodynamics for circular cones modified to produce lift at zero angle of attack, 10124
 application of generalized theory to 3-dimensional sharp-nose shock-detached bodies, errata, 2216
 noise in axisymmetric convergent electron beams, 10131, 17217
 non-linear longitudinal dynamics of orbital lifting vehicles, 17209
 predictive for thermal neutron flux perturbation effects in cylinders, 2249
 quantum theory of particle-oscillator collision applied to gas-surface interactions at cryogenic temperatures, 2269

Equations—Continued

- real gas effects in critical flow through nozzles and thermodynamic properties of nitrogen and helium at pressure to 300x105 newtons per square meter, 4695, 16149
- Runge-Kutta formulas with stepsize control, classical 5th-, 6th-, 7th-, and 8th-order, 1145
- stability theory of nonlinear operational differential equations in Hilbert spaces, 10089
- temperature distributions in radiating gray gases, 10141
- toward theory of fuzzy systems, 16139
- use of integral transforms in estimation of time variable parameters, 8644
- wave, in prolate spheroidal coordinates, tables of eigenvalues, 14743
see also Mathematics.
- Equations of motion:
 computer plotting description of ion-molecular collisions with long-lived capture complexes, 14645
 ellipsoidal velocity distribution function, 5998
 experimental verification of scale factors for parawing opening characteristics with dimensional ratios, 6017
 helicopter rotor in forward flight, method for analyzing aeroelastic stability, 14568
 inviscid flow analysis of parallel slot jets impinging normally on a surface, 2256
 laminar dispersion in diverging channels and in concentric annuli, 9975
 new matrix theorem and its application for establishing independent coordinates for complex dynamical systems with constraints, 16206
 numerical difficulties in integrating equations for one-dimensional nonequilibrium nozzle flow, 8639
 on generation of ideal coordinates systems for analysis of optimal trajectories, 1037
 reentry equations with 4 degrees of freedom, computer mechanization, 1036
 rigid rotor dynamics, 16125
 simplified theory and transducer potentialities of pinch effects in semiconductors, 8624
 steady flight differential equations of flexible helicopter blade with chordwise mass unbalance, 7668
 unified treatment of lunar theory and artificial satellite theory, 16193
 view factors for toroids and their parts, 8610
see also Motion.
- Equations of state:
 compatibility conditions of theory of micromorphic elastic solids, 1034
 ionization equilibrium, at stellar temperatures and densities, tables, 6142
 theoretical thermodynamic properties of gases at high temperatures and densities with numerical results for hydrogen, 2352
- Equatorial Guinea, background notes, 8875
- Equilibrium:
 and free vibration problems associated with centrifugally stabilized disk and shell structures, 2185, 4660
 blunt-body equilibrium air flows field, modified method of integral relations approach, including comparisons with inverse solutions, 16182
 calculating equilibrium compositions of multiconstituent, multiphase, chemical reacting systems, 10058
 characteristics of herringbone-grooved air-lubricated journal bearings, experiments, steady state, 13139
 chemical equilibrium of ablation materials, including condensed species, 14636

Equilibrium—Continued

- dissociating air, stagnation-point boundary layer with suction and injection, corrected copy, 2217
- flight test results of trailing edge flap designed for direct-lift control, 17201
- magnetic field steady-state condition, determination of plasma parameters produced by super high-frequency power, 15064
- nonequilibrium air streams in Ames 1-foot shock tunnel, analysis, 4717
- stability, theory of high-current self compressed discharge in optically dense plasma with radioactive thermal conductivity, 15062
- static equilibrium configuration of cable arrays by use of method of imaginary reactions, 10257
- Equilibrium (physiology):
 - primate equilibrium platform in radiation environment, research, 1545
- Equine encephalitis, *see* Encephalitis.
- Equine infectious anemia, *see* Anemia.
- Equine prolasmosis, *see* Piroplasmosis.
- Equipage, *see* Clothing.
- Equipment development ED&T report, 12679-680, 14259-261
- Equipments, *see* Dental instruments and apparatus—Foundry supplies—Handling equipment—Medical instruments and apparatus—Military supplies—Veterinary instruments and apparatus.
- Erambert's hybrid, *see* Pine.
- Erdman, James A., environment of Mesa Verde, Colo., Wetherill Mesa studies, 16267
- Ergun, Sabri, X-ray studies of coals and carbonaceous materials, 4619
- ERIC, *see* Educational Resources Information Center.
- Eriesson, Lars E., aerodynamic effects of bulbous bases, 14569
- Erie, Lake:
 - and its tributaries, pollution—conference proceedings, 9836
 - Indiana, Michigan, New York, Ohio, Pennsylvania, conference proceedings, 5654, 5656
 - water pollution control plan, report, 8262
- Erie County, N.Y.:
 - flood plain information, 12477
 - floods, how to avoid damage, 12537
- Erie-Lackawanna RR., accidents, reports, 11078, 11104
- Eringen, A. Cemal, compatibility conditions of theory of micromorphic elastic solids, 1034
- ERL, *see* Essa Research Laboratories.
- Erman-Howell Division, Luria Steel & Trading Corp., relief, 8015
- Ernsberger, G. W., inverter-converter parallel operation, 4663
- Erosion:
 - AUTEC sediment deposition/erosion study interim report, 13219
 - multiple liquid impact, experimental and analytical investigations, 5982
 - of snow by wind, 1573
 - scaled lunar module jet erosion experiments, 8612
 - see also* Beach erosion—Soil erosion.
- Erosion control, *see* Soil erosion.
- Error analysis:
 - controlled failure-mode tests, some liquid oxygen/liquid hydrogen explosive effects, 14629
 - holographic microscopy for determination of failure mechanisms in monolithic elements, 13051
 - manipulation errors in finite element analysis of structures, 14573
 - symbol-oriented failure analysis in multi-component systems, 8620

Errors:

- forest survey estimates, stratifying stand volume on non-sterco aerial photos reduces errors, 17053
- objective detection and correction in radiosonde data, 612
- regression analysis procedures for evaluation of tracking system measurement errors, 2225
- systematic, in ultrasonic propagation parameter measurements, effect of finite thickness elastic solid tubes enclosing liquid cylinder of interest, 10265
- see also* Probabilities (mathematics).
- ERS, *see* Economic Research Service.
- Ertel, Ivan D., Apollo spacecraft, chronology, 13060
- Erythrocytes, *see* Blood.
- Erzberger, Heinz, technique for calculating optimum takeoff and climbout trajectories for noise abatement, 11450
- ESARS, *see* Employment Security Automated Reporting System.
- Escape (military):
 - survival, evasion, and escape, skills, etc., Army Dept., field manual, 11934
- Escape systems, Apollo launch-escape vehicle configurations, transonic aerodynamic characteristics of powered models, 1075
- Escapes, *see* Refugees.
- Escherichia coli, paracolon separating from Shigella by use of Citrate Mannitol Agar medium, 83
- Escondido Creek, San Antonio River basin, Tex., hydrologic data, compilation, 11239, 14339
- ESEA (elementary and secondary education act), *see* Education—Elementary education—Secondary education.
- Eshleman, Ronald L., shock and vibration digest, 12385
- Eskimos:
 - art, bibliography, 8411
 - economic development, 1930-67, bibliography, 8406
 - folktales, bibliography, 8412
 - graphic arts of Alaska Eskimo, 14402
- Eslay, Wallace E., new method for appraising decay capabilities of micro-organisms from wood chip piles, 15762
- Espionage, internal security laws, etc., study and investigation, report, 5413
- ESSA, *see* Environmental Science Services Administration.
- ESSA Institute for Oceanography, collected reprints, 12561-562
- ESSA 3 (meteorological satellite), *see* Satellites.
- ESSA Research Laboratories:
 - ESSA technical memorandums—
 - ERLTM-AOL series, 611
 - ERLTM-NSSL series, 612, 6911, 11023-24
 - RLTM-ARL series, 613
 - RLTM-POL series, 614
 - ESSA technical reports—
 - ERL-AL series, 6913-14
 - ERL-APCL series, 615, 9720-21
 - ERL-ESL series, 14164
 - ERL-ITS series, 4216, 6915-16, 9722-24, 11025-27, 12567-570, 14165-167, 15674-675
 - ERL-OD series, 1833
 - ERL-POL series, 6917, 8187, 14168-169
 - ERL-RFF series, 15674
 - ERL-SDL series, 1834-35, 4217, 5578, 6918-19, 9725, 14170
 - ERL-WPL series, 1836, 9726, 12571-572
 - programs, resources, and management information, 12565
 - scientific and technical publications—
 - list, 14177
 - management information, 14174-175
 - technical manuals, 1831
- ESSA world, official employee publication, 2804

- Essex County, Mass., land exchange, report, 390
- Estate tax, *see* Inheritance and transfer tax.
- Estates:
- deceased persons, double taxation, Netherlands, text, etc., 15354
 - Federal tax guide for survivors, executors, and administrators, 8429
- Esters:
- advanced ester lubricant, effect of oxygen concentration in bearing tests at 400° and 450° F, 13082
 - cellulose, reverse osmosis membranes, development, 8422
 - esters and metal organics, technical grade, military standard, 4136
 - neopentyl polyol ester lubricants, determination of ester composition, 6141
 - neopentyl polyol, lubricants, wear and friction studies, 1267
- Esteve, Cesar Baro, *see* Baro, Cesar.
- Esthetics, plants, highway research and development news, 13386
- Estonian Soviet Socialist Republic, arts festival, address by Uzbek CP official, 2087
- Estuaries:
- and coastal waters, in United States, index to research, 12658
 - clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, 12655, 14239, 15740
 - coastal and estuarine waters, environmental factors bibliographic series, Washington State, 12657
 - Columbia River, improvements, hydraulic and salinity verification, model studies, 5572, 16969
 - cradles or graves, better water for America, 15741
 - disposal of effluents from desalination plants into estuarine waters, 9958
 - estuarine dependence of Atlantic coastal fishes, studies, 17397
 - estuarine studies in upper Grays Harbor, Wash., 11252
 - national estuaries inventory, handbook of descriptors, 9835
 - Panamanian estuarine waters, initial fungus attack on tropical woods, 10248
 - Potomac River at Washington, D.C., movement of solute at low inflow conditions, 14337
 - San Francisco Bay and delta, Calif., water pollution, hearings, 12223
- Ethan Allen, Vt., Army National Guard Facility, adjust legislative jurisdiction, report, 12280
- Ethers, plyphen, and superrefined mineral oils, lubrication with, in 600° F (316° C) inerted vane pump loop, 7273
- Ethics:
- acquisition and development of values, perspective on research, conference report, 14682
 - duty, honor, country, character guidance discussion, 7658, 9037
 - laws relating to ethical conduct and conflict of interest, Post Office Department, 4854
 - medical, discussion by A. Bilbini, USSR study, 5836
- Ethiopia:
- agriculture, survey, 12417
 - economic trends and their implications for United States, 2031, 8467
- Ethyl alcohol, *see* Alcohol.
- Ethylene, hydrogenation on metallic catalysts, errata, 8667
- Ethylendinitrilotetraacetic acid, *see* Acetic acid.
- Ethyleneimine aziridinyl chemosterilants for house flies, 2
- ETOM-1, Fortran IV program to process data from ENDF/B file to MUFT format, 3815
- Etzel, J. G., development of weld quality monitor, 14609
- Eugenol, laboratory comparison of 4 zinc oxide-eugenol formulations as restorative materials, 9006
- Eul, Williams A., shear strain properties to 10⁻¹⁰ of selected optical materials, 4675
- Euler's transformations, *see* Transformations (mathematics).
- Eulogies, *see* Memorial Services.
- Eumice, *see* Polychaeta.
- Eurasia:
- climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—graphs, 1840
 - maps, 4219
- Eureka County, Nev., Mill Canyon area, Cortez quadrangle gold, silver, and other metals, anomalous concentrations, 743
- Eureka to Point Conception, Calif., coastal warning facilities chart, 14965
- Euro-dollar flows and efficiency of U.S. monetary policy (paper), 8240
- Europe:
- Army and Air Force controls over inventories, GAO report, 11204
 - Atlantic consultation, President Nixon in Europe, 7482
 - brief outline of major countries, 10779
 - census and statistical systems, report, 16799
 - central, foreign relations of U.S.—departmental edition, 11705
 - document edition, 10691
 - continental European solid waste management practices, observations, 17351
 - customs tariff of European Communities, English translation, 11679
 - Czechoslovakia, situation, and U.S. Forces in Europe, report, 470
 - Eastern—
 - agricultural situation in Communist areas, 6859
 - economic and industrial affairs, translations, 2507
 - foreign relations of U.S., diplomatic papers—
 - departmental edition, 16466
 - document edition, 15216
 - 1950-66 agricultural statistics, 5527
 - political, sociological, military affairs, translations, 3508
 - scientific abstracts, 2776-83
 - scientific affairs, translations, 3509
 - social science research, special papers available, 14904
 - United States and Eastern Europe, Air Force Assembly, final report, 65
 - United States trade with Communist areas, 9208
 - European activity and American potential solid waste management, composting, 6207
 - European and British Commonwealth series, 7482
 - European communities, origin, establishment, etc., 13477
 - European countries, mineral industry, minerals yearbook chapter, 5943
 - 1st Army in Europe, print as Senate document, report, 9423
 - industrialized building, comparative analysis of European experience, special report, 12812
 - NATO and defense of Europe—
 - discussion guide, 16471
 - United States foreign policy issues, 16470
 - Northern immigrants, make additional visas available to, hearings, 406
 - postal services of U.S. Armed Forces on-site inspection, report, 6657
 - school system for overseas dependents, Defense Dept., GAO report, 14323
 - title tables, 12059
 - urban land policy, selected aspects of European experience, 9948
 - U.S. honey in west European market, 12670

- Europe—Continued
 U.S. troops in Europe, report, 468
 west coast, lights and fog signals, list, change, 2335, 8751, 16303
- Western—
 agricultural production, indices, 12119
 agricultural situation—
 midyear review, 12422
 1968 review and 1969 outlook, 6858
 economic upswing, 1887
 foreign relations of U.S.—
 departmental edition, 11705
 document edition, 10691
 market profiles, 10649
 rising construction costs and anti-inflation policies, report, 14461
 selected references, 11912
 translations, 3524
 United States foreign policy briefing
 film analyzing nature and development of, since end of World War II, discussion guide, 1438
- European communities, *see* Europe.
 European Customs Union Study Group, convention, protocol, report, 437
 European Economic Community:
 agricultural trade, 1961-67, statistics, 4158
 grain developments in Common Market, 4290
 European Free Trade Association, agricultural trade statistics, 1961-67, 9644
 European pine shoot moths, potential damage to and characteristics of Ponderosa pine, 8292
 European War, 1914-18:
 Naval Overseas Transportation Service in World War I, history, 16305
 United States Marine Corps in World War, history, 4615
 Eurofla lanata, *see* Winterfat.
 Evaluating contractor performance capability, 1782
 Evaluation is a full-time job, 6879
 Evaluation of CAS operations, 1771
 Evans, Howard E., Bredin-Archbold-Smithsonian biological survey of Dominica, Bethyloidea (Hymenoptera), 13417
 Evans, J. Albert, commercial cotton farms, costs and returns, Mississippi Delta, 15620
 Evans, John E., remarks, Oct. 29, 1968, 778
 Evans, Keith E., characteristics and habitat requirements of greater prairie chicken and sharp-tailed grouse, review of literature, 4296
 Evans, Melvin H., nomination, hearing, 14044
 Evans, S., transport processes in electrochemically controlled ion-exchange desalination, 7088
 Evaporated milk, *see* Milk.
 Evaporation:
 behavior of liquid surfaces during evaporation and condensation, 2012
 radio-physical studies of evaporation, 1966-67, at Lake Hefner, 12571
 rapid vacuum evaporation system, 6361
 seawater, gas turbine powered vapor compression plant for, design and economic study, 2006
 volatile organic liquids, effects of adsorbed monomolecular films, 16317
 Warm Springs Reservoir, Oreg., study, 12769
 Evaporators:
 analytical model of flash stage, development 797
 saline water, scale control, review of current status, 9957
 vertical tube-flash evaporator desalination plant, 250 million gallons per day, conceptual design study, 4399
 Evapotranspiration, potential, and climate in Alaska By Thornthwaite's classification, 12712
- Evavisto, Maria da C., relief, 9274, 12106, 13966
 Evening and continuation schools, *see* Schools.
 Everett, Robert A., memorial services, 10674
 Everett, Robert A. Memorial Bridge, *see* Robert A. Everett Memorial Bridge.
 Everett, Mass., railroad-highway accident report, 4817
 Everett, Wash., area wage survey, 10022
 Everglades (U.S.S.):
 deployment to Malta, maritime matters, agreement, 4971
 Everglades National Park:
 additional lands, acquisition, reports, 13990, 16777
 general information, 8720
 hydrogeologic data related to establishment of pumping station, 8349
 Taylor Slough, effects of mineralized artesian water on fresh-water biota, 15795
 water supply, environmental, and jet airport problems, hearings, 15461
 Everly, Elaine C., selected series of records issued by Commissioner of Bureau of Refugees, Freedmen, and Abandoned Lands, 1865-72, pamphlet, 6034
 Eversman, Walter, some equilibrium and free vibration problems associated with centrifugally stabilized disk and shell structures, 2185
 Everybody's problem, movement of money, 15726
 Everything from the ground up, Air Force ROTC, 76
- Evidence:
 proposed rules for United States District Courts and magistrates, preliminary draft, 6352
 testimony by FAA employees in legal proceedings, Federal aviation regulations, 12583
 testimony to clarify liability of national banks for taxes, hearing, 9339
 Evjen, Victor H., Federal probation, journal of correctional philosophy and practice, 2867
 Evolution, evolution of medicare . . . from idea to law, 13438
 Evvard, John C., atmospheric limits on observational capabilities of aerospace, 1144
 EXAMETNET, *see* Experimental InterAmerican Meteorological Rocket Network.
- Examinations:
 Air Force qualifying test scores, effect of maturation and educational experience, 8996
 airman qualifying examination and Armed Forces qualifying test norms, relationship, 5069
 renorming USES statistical typing test, 594
 see also Civil service—*also* types or subjects of examinations.
 Excavating machinery, equipment, Federal item identification guides for supply cataloging, supplements, 2842
 Excess property, *see* Surplus property.
 Exchanges, State-Defense Officer Exchange Program, analysis and assessment, committee print, 6788
 Exchanges (international), *see* International exchanges.
 Excise taxes:
 automobile and telephone services, continue—
 hearings, 10895
 public hearings, 10808
 reports, 10739, 10742, 12270
 automobile and telephone services, post-pone reduction and extend rates—
 amendments, summary, 432
 conferees decisions, summary, 5439
 automobile, impose on concrete mixers, report, 453

- Excise taxes—Continued
 information on 1969 excise taxes, 14415
 internal revenue bulletin, cumulative, index-digest supplement system, 11291, 14413
 IRS looseleaf regulations system, 3090, 7096, 11296, 15870
- Excitation:
 ratios of steady-state responses to various transient responses, both having equal maximum excitation levels, 4750
 spectrum for Bose gas with repulsive and attractive interactions, 1072
- Excited states of Xenon-130 populated by beta decay, 13110
- Executive departments:
 officers, letters from Dept. of Justice, 2277
 survey of progress in implementing planning-programming budgeting system in executive agencies, GAO report, 12751
see also Government offices—Government reorganization plans.
- Executive leadership in public service, 8929
- Executive, Legislative, and Judicial Salaries Commission, report, 4228
- Executive Mansion, general information, 6096
- Executive Office of the President:
 appropriations, 1970—
 hearings, 9331, 10886
 law, 16740
 reports, 9310, 9312, 10873, 15281
- Executive orders, *see* subjects.
- Executive Papers, Joint Committee on Disposition of, reports, 3980, 6643, 7890
- Executive Seminar Center, Kings Point, N.Y., general information, 3876
- Executives:
 earnings data pertinent to review of salary, tests, 10451
 industrial, views on national space program, survey, 421
 National Highway Safety Bureau contractors report, executive summaries, 16259
- Exercise:
 response of normal man to graded exercise in progressive elevations of CO₂, 7635
 serum enzyme changes after physical exertion, 14504
- Exhaust plumes, theory on afterburning in low-altitude rocket exhaust plume, 10253
see also Jet plumes.
- Exhaust systems:
 diesel exhaust gas for carbon dioxide, carbon monoxide, oxygen, methane, and nitrogen oxides, continuous monitoring, 5961
 jet-exhaust, effect of location on longitudinal aerodynamic characteristics of jet V/STOL model, 13113
- Exhibitions:
 exhibitor's export market guide (series), 9999
 international expositions held in United States—
 Federal Government recognition and participation—
 hearings, 13929
 report, 10856
 overseas, commercial exhibitions (remarks), 6546
 United States conventions and exhibitions, 1482
 visit, investigate, purchase, at America's top trade expositions, 9216
 Werner Crews woodcuts, catalogue, 14677
see also subjects.
- Exhibits:
 display catalog, civil defense, 6517
 experimentally oriented science exhibits from Lawrence Hall of Science, Berkeley, Calif., 3811
 historic ship exhibits in United States, 8756
- Eximbank, *see* Export-Import Bank of United States.
- Expansion (solids):
 desiccated clays during construction, controlling, 14829
- Expansion (thermal):
 thermal ram, new concept for load application, 13672
 zero thermal expansion composites of high strength and stiffness, 8596
- Expansion tubes, Langley pilot model, velocity profile measurements of free-stream flow by photolionization, 2241
- Expatriation, effect of *Afroyim v. Rusk*, 387 U.S. 253, 11330
- Expediting act, *see* Trusts (industrial).
- Expenditures:
 corporate, as charges to government contracts at government-owned plants, differences in allowing, GAO report, 765
 criminal justice activities of large governmental units, 6507, 9165
 Federal revenue and expenditure estimates for States and regions, 1965-67 fiscal years, subcommittee, analytical review, 1701
 public, estimating benefits, guidelines, hearings, 12130
 revenue and expenditure control act of 1968, decisions of conferees on H.R. 15414, summary, 5439
 rural income and expenditure survey in Vietnam, initial report, 14425
see also Finance—*also* names of departments, etc.—*also* subjects for which expenditures are made.
- Expenditures of United States Government:
 combined statement, 5009
 monthly statement, 3142
 planning-programming-budgeting system, analysis and evaluation of public expenditures, 10688
 print additional copies, reports, 10754, 12279
- Experimental and special training grants, NIMH guidelines for applicants, 17337
- Experimental InterAmerican Meteorological Rocket Network, meteorological rocket observational data, etc.—
 1966 annual report, 4693
 1967 annual report, 8606
- Experiments and experimentation:
 absolute radiometers for use in ballistic-range and shock-tube experiments, 16157
 design of doubly telescoping sequences of blocks with application to nuclear reactor experiment, 13137
 experimental and demonstration program, exploring new approaches to manpower problems, 5881
 experiments in discrimination and classification, 8760
 processing and display, using digitized ATS-1 spin scan camera data, 14171
 radiobiological experiments on Cosmos-110 biosatellite, USSR study, 865
 sonic boom experiments, survey, 12600
 space resources for teachers of biology, suggestions for classroom and laboratory experiments, 7243
 stability of water lubricated herringbone-groove journal bearings, theoretical considerations and clearance effects, 1103
 summary of individual requirements, study for biotechnology laboratory for manned earth orbiting missions, 14581
 youth experiments with science, USSR study, 844
- Explanation of the weather map, 16974
- Exploding wires, process as source for high temperature studies, investigations, 1174
- Explorations:
 Atlantic Continental Shelf and slope of United States, 19th century exploration, 1966

- Explorations—Continued
bottom trawl explorations, 1963-65, in—
Green Bay of Lake Michigan, 7811
Lake Superior, 6547
exploration assistance, questions and answers about Geological Survey program, 8342
exploring world around us, 12431
see also Outer space—Prospecting.
- Explorer, *see* Satellites.
- Exploring the moon and the planets, 10093
- Explosions:
air blast, estimate of man's tolerance to direct effects, 17123
blast shields testing, 1112
explosibility of miscellaneous dusts, 2175
explosion development in spherical vessel, 13024
shipyard hazards, maritime safety data, 14445
some liquid oxygen/liquid hydrogen explosive effects in controlled failure-mode tests, 14629
see also Detonations—Nuclear explosions.
- Explosive guns, exploding foil gun technique, ballistic limit of aluminum plates determined, 1047
- Explosives:
commercial explosives and blasting agents, factors in selecting and applying, 4622
DoD contractors' safety manual, 1784
exploding wire initiation and electrical operation of 40-kV system for arc-heated drivers up to 10 feet long, 8623
explosive and thermic compositions or charges, classification definitions, 1282
Federal item identification guides for supply cataloging, supplements, 2850
publications, price list, 2408
safety standards, DoD, manual, 12354
slurry explosives for use in potentially flammable gas atmospheres, development, 977
see also Atomic blastings—names of explosive substances.
- Export-Import Bank of United States:
act of 1945, as amended—
through Dec. 1, 1968, 1845
through May 1, 1969, 8190
appropriations, 1970, hearings, 15299
audit report, 12142
GAO report, 9874
Board of Directors, member, nomination of—
Clark, John Conrad, hearing, 9449
McCullough, R. Alex, hearing, 9450
general information, 8191
1968 report, 619
President, nomination of Henry Kearns, hearing, 6778
Vice President, nomination of Walter C. Sauer, hearings, 8054
- Export trade, *see* Commerce.
- Exporters:
American exporter faces competition (address), 9982
export documentation process (remarks), 15174
Federal programs supporting (speech), 819
- Exports:
adjusted and unadjusted data, 1958-68, with seasonal and working-day factors, 3864
airborne, foreign trade reports, 2919
barriers (address), 6538
best prospects for U.S. exports, 1657
can we expand our exports enough? (address), 2023
changing patterns of U.S. trade in non-agricultural products and impact on southern economy (remarks), 4422
comprehensive schedule, 2684
- Exports—Continued
control act of 1949, extend and amend—
hearings, 15310
law, 15207
report, 15356
control act of 1949, temporary extension—
law, 12120
reports, 10748, 10871
control, quarterly report, 2808
control regulations, 9985
summary, 11309
crops, surplus removal, statutes, compilation, 1502
current export bulletin, 2730
direct investments overseas, impact (speech), 6997
exhibitor's export market guide (series), 9999
expansion and regulation act—
cargo preference provision, hearing, 12287
continue authority, report, 15356
expansion and regulation, hearings, 9448
expansion, financing and U.S. balance of payments (paper), 9823
expansion, regional products, hearings, 4100, 5466
export control bulletin, 9984
export expansion program (remarks), 2022
export promotion (address), 15159
exporting to United States, 15490
financing programs, 4423
foreign trade markets situation (remarks), 16518
foreign trade reports, 1626, 2911, 2914-15, 2920, 10613-614
Government programs to increase exports and strengthen our domestic economy (address), 6700
important to international economic objectives (address), 12066
international marketing, opportunities for newcomers (address), 7118
introductory guide to exporting, 8183
licenses approved and reexports authorized, list, 2809
manufacturers' sales and orders of durable goods, current industrial reports, 2732
mutual defense assistance control act of 1951 (Battle act), report, 4963
national export expansion campaign (address), 17194
our export goals (address), 5802
policies and actions to improve U.S. balance of payments and of trade reports, 3905
President's E award for export excellence, presentation to Den-Tel-Ez Chair Manufacturing Co. and Townsend Engineering Co. (address), 10644
sales promotion announcements, 2810
statistical classification, schedule B, 222, 3412
U.S. agriculture in changing world (address), 14982
world markets for U.S. exports (series), 9999
see also Commerce—Tariff—*also* names or classes of articles exported.
- Expositions, *see* Exhibitions.
- Exposure:
outdoor, at elevated temperature, effect on fatigue life of Ti-8Al-1Mo-IV titanium alloy and AM 350 stainless steel sheet, 13133
prolonged at 550°F (561°K), strain-rate sensitivity of 3 titanium-alloy sheet materials, 2268
repeated, to carbon dioxide, effect on vision, 12999
structural ferrous metals, 16 years' exposure to sea and fresh water, in tropical environments, 14744
see also Cold exposure.

Exposure meters, *see* Photometers.
 Extension and Continuing Education, National Advisory Council on, *see* National Advisory Council on Extension and Continuing Education.
 Extension service, *see* Federal Extension Service.
 Extension Service, Cooperative, *see* Cooperative Extension Service.
 External work:
 helping others catch up, 3665
 in public affairs, 16554
 this is Cooperative Extension, 11879
 your career as extension agent, 14998
 Exterior painting, 41
 External drive system for all-attitude air-bearing research and training simulator, 1547
 Extortion, enforcement report of Postal Inspection Service, monthly 2798
 Extraction (chemistry):
 aluminum and fluorine from leached potting residues, 10065
 copper from oxides using iron and steel scrap, principles and application to pure systems, 16101
 gains in rhodium and aluminum extraction urged, USSR study, 11316
 recovery of salts from saline waters via solvent extraction, final report, 7086
 solvent stability and recovery in solvent extraction desalination, 800
 Extraterritorial Resources Working Group, annual meeting, proceedings, 5989
 Extravehicular activity, *see* Outer space.
 Extravehicular operations, *see* Outer space.
 Extrusion processes:
 effect of varied extrusion temperature on properties of zinc-copper-titanium alloy, 4649
 2 nickel-base alloys, alloy 713C and NASA TAZ-SA, produced by extrusion of pre-alloyed powders, evaluation, 10150
 Eyes:
 examining, classification definitions, 1297
 eye opacities in flying personnel, 3693
 modification of vestibular nystagmus and vertigo by visual stimulation, 11971
 protection, dipole shutter, transparency, 9009
 pupil size, light flashes, and visual performance, analysis of discomfort in use of electro-optical aids, 8577
 rapid eye movement (dreaming) sleep deprivation effect on retention of avoidance learning in rats, 8580
 see also Ophthalmology—Retina—Spectacles.

F

F.A.A., *see* Federal Aviation Administration.
 F.B.I., *see* Federal Bureau of Investigation.
 F.C.C., *see* Federal Communications Commission.
 F.H.A., *see* Federal Housing Administration.
 F.P.C. S series 611
 F.S.L.I.C., *see* Federal Savings and Loan Insurance Corporation.
 FAA, *see* Federal Aviation Administration.
 Fabiano, E. B., grid values of total magnetic intensity IGRF, 12566
 Fabre, Frank R. S., relief, 4010
 Fabricated materials, nonmetallic, Federal item identification guides supply cataloging supplements, 2848
 Fabrication, *see* names of materials fabricated.
 Fabrics, *see* Textiles.
 Fabuss, B. M., properties of sea water and solutions containing sodium chloride,

Fabuss, B. M.—Continued
 potassium chloride, sodium sulfate, and magnesium sulfate, 2009
 Face, *see* Head.
 Facilities handbook series, 1306, 2391, 13318, 16327
 Facility management, 11917-918
 Facility operation, 621, 5587, 9738
 Factories:
 factory operatives, assemblers, electroplaters, inspectors, power truck operators, production painters, employment outlook, 4506
 labor turnover, monthly release, 2815
 Facts about U.S. money, 4993
 Facts about wholesaling (series), 1613, 5091, 10590
 Faculty (Schools):
 full-time medical school faculty, 1967 fiscal year, 7317
 Fading (radio), *see* Radio communication.
 Fagan, C. H., improved concept of elastomeric bearings for UH-1 tail motor assembly, 4130
 Fagan, Charles, A. III, remarks, Oct. 15, 1969, 16913
 Failing newspaper act, *see* Newspapers.
 Failer, Kenneth M., medals of United States is not for public sales, 13023
 Failure analysis, *see* Error analysis.
 Failure criteria for filamentary composites, 11618
 FAIR (Fair Access to Insurance Requirements), *see* Insurance.
 Fair employment practices, *see* Discrimination in employment.
 Fair labor standards act, *see* Labor standards.
 Fair packaging and labeling act, *see* Packaging.
 Fair use of copyrighted works, 15489
 Fair wage and hour law, *see* Labor standards.
 Fairfax County, Va., sediment movement in area of suburban highway construction, Scott Run basin, 12796
 Fairfield, Calif.:
 streams in vicinity, engineers report—departmental edition, 15663
 document edition, 15225
 Fairness doctrine, *see* Radio broadcasting—Teletexting.
 Fairs:
 mobile trade, continue program, hearings, 1765
 909 international trade fairs, 1969 year of big sell on every continent in every major market, 4424
 United States trade shows and exhibitions, 1970, list, 14959
 Fais Island, plants, collection, 17371
 Faison, Richard W., ratios of steady-state responses to various transient responses, both having equal maximum excitation levels, 4750
 Fajardo Vargas, Orlando, relief, 8012
 Falk, Leslie K., procurement of library materials in Federal government, orientation aid, 1614
 Fall armyworms, *see* Armyworms.
 Fallout, *see* Radioactivity.
 Allowfield township, Pa.:
 flood plain information, 12172
 floods, how to avoid damage, 12485
 Falls, preventing injury from falls and falling objects, occupational safety aid, 16010
 Falvey, H. T., spectral analysis, prototype study, 14840
 Families:
 AFDC study, 1967, preliminary report from mail questionnaire, 7330

Families—Continued

aid to families with dependent children—
cost standards for basic needs and per-
cent of standards met tables, 2300,
7334, 11527
Federal participation in program, repeal
limitation—
law, 12126
reports, 9439, 10746, 10847
New York City, monitoring of special
review conducted by Health, Educa-
tion and Welfare Dept., 16827, 17056
average family income up 8 percent in
1968, 13769
by type, 1968, population characteristics,
240
characteristics of persons and families,
Mar. 1969, income, poverty, etc., 13763
clothing money—
Ford family, 8981
Jones family, 8950
Turner family, 8982
family economics review, 2816
family food buying, guide, 16543
family law and policy, task force report,
791
family planning, nationwide opportunities
for action, 759
family status, Mar. 1968, population char-
acteristics, 12012
food for family with young children, 13587
food stockpile for survival, 16539
health survey, 16656
homeownership for lower income families,
772
household and family characteristics, cur-
rent population reports, 15115
income—
1967, supplementary report, 15117
working wives, their contribution, 5008
low-income—
homeownership assistance for purchase
and resale of housing, 1986
Nation's program to help lower income
families become homeowners (ad-
dress), 14382
nonprofit sponsors of housing, general
information, 14389
rent supplement program, general in-
formation, Spanish edition, 5744
rental housing, 12814
program under (sec. 236), policy, etc.,
773
rural families, economic opportunity
loan program under Farmers Home
Administration, administration and
effectiveness, GAO report, 14304
metropolitan poverty areas, characteristics
of families and persons living, 10605
new one-family homes sold and for sale,
15119
research relating to children, studies in
progress, 6511, 15124
rural residents, South Carolina, Ozarks,
Mississippi delta, impact of economic
opportunity loans, 1800
service programs, guides on Federal regu-
lations governing, 9171
services under social security act titles 4
and 5, 7756
social sciences and family retardation,
family components, 4787
social services in your State, 6510
States can help many children and fam-
ilies, 15122
urban, of four persons, 3 standards of
living, 5895
use of health services, United States,
13380
women, by number of children under 5
years old, current fertility by social and
economic characteristics, census of pop-
ulation, 251
your family food donation program, 17010
see also Children—Households,
Family courts, *see* Domestic relations courts.

Family farms, *see* Farms.
Family Health Week, National, *see* National
Family Health Week.
Family planning, *see* Birth control.
FAMILUS, *see* Computer programs/pro-
gramming.
Fan, S.S.T., nonsteady one dimensional com-
pressible fluid flow through anisotropic
porous media, 3745
Fandino, Angela Z., relief, 6619
Fanning, John H.:
addresses, etc.—
Nov. 21, 1968, 2310
Apr. 18, 1969, 8702
Fans:
cruise, large-scale, 1,075-pressure-ratio
tip-turbine propulsion system, subsonic
performance characteristics, 14610
ships, 1958-67, patterns of industrial
growth, 11976
see also Electric fans—Mechanical fans—
Turbine fans.
Fansen, James F.:
remarks—
Oct. 9, 1968, 640
Jan. 30, 1969, 5613
Feb. 19, 1969, 5614
Mar. 26, 1969, 6946
Oct. 2, 1969, 15712
FAO, *see* Food and Agriculture Organization
of United Nations.
FAR, *see* Foreign Area Research Coordina-
tion Group.
FAR Documentation Center, *see* Foreign
Affairs Research Documentation Center.
Far East, *see* East (Far East).
Far East Symposium on Nutrition, papers,
1192
Fara, Teresina, relief, 6629
Faraday effect, electron-content variations
and change rates obtained by measurement
of Faraday rotation of 137-MHz radio
waves transmitted from ATS-1, 11566
Faraday rotation, *see* Faraday effect.
Farberow, Norman L., bibliography on sui-
cide and suicide prevention, 14782
Fares, *see* Air carriers.
Farfante, Isabel P., western Atlantic shrimps
of genus *Penaeus*, 12075
Farina, Sabina, R., relief, 13871
Farm animals, *see* Livestock.
Farm beef herd, 5032
Farm buildings:
building plans—
braced wall silo, 46
corral with curved chute for beef cattle,
7605
corrals for sheep, 16549
elevated calf pens, 10489
farrowing and growing building for hogs,
3655, 7603
farrowing house, 3660
4- & 5-room tobacco barns, 48
free-stall barn—
for cattle, 7604
for 50 cows, housing only, 5055
for 60 cows, 6388
for 62 cows, arrangement for dairy
system, 5056
44 and 48 feet wide, 8973
free-stall housing system for 88 cows,
3659
free-stall system for dairy cows, 6390
greenhouse framing for plastic covering,
3657
loading ramp for cattle, 49
loose-housing system (covered free stall)
for 124 dairy cows, 6392
milkhouse, 3656
movable pen for truck platform, 3653
partially open free-stall housing system
for dairy cows, 3658
plastic covered greenhouse coldframe,
3654
portable corral-transport, 6389

Farm buildings—Continued
 building plans—continued
 portable sow feeders, 16551
 potato storage 25,000 cwt. pallet box, 5053
 poultry house floor management, 5054
 poultry house, post and panel construction, 3652
 pullet rearing house, 10490
 roadside market, 6391
 self-feeder for cattle, 6387
 sheep chair, 7601
 sheep corral for 250 head, 8974
 silage feed bunks for cattle, 1511
 sprinkler pipe trailer, 3661
 3-story broiler house, 7602
 tie stalls for dairy calves, 16550
 roofing, 11865

Farm credit, *see* Agricultural credit.

Farm Credit Administration:

appropriations, 1970—
 hearings, 7945, 10885
 reports, 9311, 12254
 circular, 620
 report, 1967-68—
 departmental edition, 9733
 document edition, 9250
 retirement of Government capital from farm credit agencies, hearing, 386

Farm equipment, *see* Farm implements and machinery.

Farm implements and machinery:

agricultural machinery, Kennedy round, special report, 11308
 current industrial reports, 2733
 farm equipment mechanics, employment outlook, 4497

Federal item identification guides for supply cataloging, supplements, 2843
 moving equipment, make sure it's clean first! plant pests often hitchhike in dirt, 15003

quarantines regulate movement of farm construction equipment, 1515
see also names of implements.

Farm income, *see* Income.

Farm index (periodical), 2819

Farm labor:

census of agriculture, 1964, special report, errata, 250
 developments, 2821
 farm labor inputs, 10498
 hired farm working force of 1968, statistical report, 10967
 migrant and seasonal farmworkers program in Phoenix, Ariz., effectiveness and administration, GAO report, 14309
 migratory, problem in U.S., report, 5422
 monthly report, 2820
 seasonal agricultural workers, health services grants, authorization, extend, hearings, 16820
 socio-economic profile of 1965 farm wage force, 8153
 used, 1969, for fruits and tree nuts, 8991

Farm loans, *see* Agriculture credit.

Farm machinery, *see* Farm implements and machinery—Mechanization.

Farm management, *see* Farms.

Farm mechanics, *see* Mechanization.

Farm mortgages, *see* Mortgages.

Farm prices, *see* Prices.

Farm products, *see* Agricultural products.

Farm relief, *see* Agriculture.

Farm workers, *see* Farm labor.

Farmer Cooperative Service:

appropriations, 1970—
 hearings, 7945
 reports, 9311, 12254
 FCS research reports, 11033
 information series, 6924, 11034, 12578
 publications, list, 11034

Farmers:

and the consumer, 8967, 11990
 expenditures, in 1961, for custom pesticide service, 567

Farmers—Continued

Future Farmers of America and civil defense programs, 15131

Latin American farmer, 12418

low-income, FIIA insured operating loans, provide, hearing, 14014

pesticide application equipment owned, 10965

pesticide expenditures for crops, livestock, and other selected uses in 1964, 566

publications, list, 790

self-employed, getting social security credit, 1401

Spanish-surname farm operators in southern Texas, 9641

vote for farmers of your choice, ASFC's commitments, election information, 11877

see also Farmers' cooperative organizations.

Farmers' bulletins, 33-36, 1503-4, 3635-37, 5032-33, 6377-78, 7585-88, 10479-480, 11865-866, 13584-586, 14991, 16537-538

Farmers' cooperative organizations:

farmer co-ops, what are they? 6921

news for farmer cooperatives, 3198

statistics, 1966-67, 11033

see also Production credit associations.

Farmers Home Administration:

Administrator, nomination of James V. Smith, hearing, 5425

appropriations, 1970—

hearings, 7945

reports, 9311, 12254

career opportunities, building a new America, 9734

consolidated act of 1961, amend, hearing, 13911, 14014

economic opportunity loan program for low income rural families, administration and effectiveness, GAO report, 14304

emergency area designations, policies and procedures for recommending by Farmers Home Administration, GAO report, 7033

emergency credit revolving fund, temporary funding, report, 9412

farm mortgage lending experience, 6863

farmers home insured notes, for building rural America, 11884

insured notes, investor's opportunity, 11883

insured operating loans to low-income farmers and ranchers, authorize, hearing, 14014

loans for rental and co-op housing for senior citizens, etc., in rural area, 7607

operating loan program, 1965-66, new borrowers compared with those obtaining loans from banks and production credit associations, 9640

programs strengthen family farms and rural communities and reduce rural poverty, 13600

rural housing loans, 8976

Farming, *see* Agriculture.

Farms:

beef slaughtering, cutting, and processing, 13585

commercial slaughter, meat and lard production, etc., 8905

cost situation, 5529

costs and returns, 15619-621

commercial broiler farms, Georgia, 15621

commercial, by type, size, and location, 14536

commercial cotton farms, Mississippi delta, 15620

commercial egg-producing farms, New Jersey, 15619

DDT used in farm production, 8154

displaced by Federal and federally assisted programs, uniform relocation assistance, hearings, 8074

excess deductions account for farm losses, tax reform press releases announcing tentative decisions, 13915

Farms—Continued

family farm records, 35
 farm poultry management, 6377
 Farmers Home Administration strengthens family farms, 13600
 financial returns partitioned, application to growth of farm firms, 4156
 flooded, first aid, 6370
 forestry on modern Georgia farm, 11744
 general farm program, hearings, 16806
 grain, feed, seed, and farm supply technology, 2-year post high school curriculum, 5543
 losses, deductions, tax reform hearings, summary of testimony, 10814
 make your farm woods profitable, 11745
 management—
 poultry house floor management, farm building plan, 5054
 publications, price list, 6171
 new farm fencing declines, use of treated posts up, 17019
 population—
 1967 estimates, 12413
 1967, United States, 9153
 1968, United States, 12009
 population, series Census ERS, 9153, 12009
 production and efficiency changes, summary report, 10497
 protecting through plant quarantines, 8978
 real estate—
 market developments, 1802, 5530, 14126
 taxes, recent trends and developments, 8161
 taxes levied on real property, 1950-67, revised estimates, 11886
 see also Electricity—*also* headings beginning Farm.
 Farnes, P. E., water supply outlook and Federal-State-private cooperative snow surveys for Montana, 1408, 3586
 Faroe Islands, air navigation services, joint financing agreement with other governments, 2500
 Farr, Marie L., Bredin-Archbold-Smithsonian biological survey of Dominica myxomycetes from Dominica, 4796
 Farrell, James O., effect of valve position in sidewall port filling system, Newburgh Lock, Ohio River, 1827
 Farrell, Richard, development of experimental silicon carbide backward diode operable to 1000° K, 8642
 Farriery, *see* Horseshoeing.
 Farrowing & growing building for hogs, farm building plan, 3655
 Farrowing house, farm building plan, 3660
 FAS, *see* Foreign Agricultural Service.
 FAS-M series, 667
 Fashion, styles that look good make you feel good, 8986
 Fast announcements (periodical), 2822
 Fast reactors, *see* Reactors (atomic).
 Fasteners, *see* Fastenings.
 Fastenings:
 fastening devices, etc., trade and tariff information, summaries, 1466
 fastening surfacing materials in rehabilitation operations, guide, 4257
 mechanical fasteners and materials, guided missiles preferred items list, military standard, 5509
 nailed cleats, performance in blocking and bracing 1913
 threaded fasteners, Federal item identification guide, change, 5492, 14093
 trade and tariff information, summaries, 1463
 Fat, *see* Fats.
 Fatalities, *see* Death.
 Fatigue of materials, *see* Strains and stresses.
 Fats:
 current industrial reports, 230-231, 2732
 fats and oils situation, 2823
 foreign agriculture circulars, 2902

Fatta, Francesco A., *see* Millonzi, Francesca A.
 Fatzinger, Carl W. how to distinguish attacks by black turpentine beetle and Dioryctria amatella on southern pines, 7017
 Faucets, recreation sites, equip tips, 14260
 Fauchald, Kristian, revision of 6 species of *Ilavus-bidentatus* group of Eunice (Eunicidae: Polychaeta), 13420
 Faught, Harold F., nomination, hearing, 10918
 Faulkner, Rafford L.:
 remarks—
 Dec. 12, 1968, 1609
 Oct. 19, 1969, 16634
 Faulkner County, Ark., community profile, 15559
 Fauna:
 bottom-dwelling macrofauna, role in water pollution investigations, 14791
 Carboniferous megafaunal and microfaunal zonation in northern Cordillera of United States, 11245
 early Reticuloceras zone, from Hale formation in northwestern Arkansas, 1970
 North America, 13451, 14883
 Fawcett, John:
 internal revenue assessment lists, 1862-66, microcopy, pamphlet to accompany—
 California, 11513
 Territory of Colorado, 6035
 fBEs, *see* Ionosphere.
 FBI, *see* Federal Bureau of Investigation.
 FCC, *see* Federal Communications Commission.
 FCR series, 15619-621
 FCS, *see* Farmer Cooperative Service.
 FCST, *see* Federal Council for Science and Technology.
 FDA, *see* Food and Drug Administration.
 FDL (series), 1409-11, 11685-687
 Feathers:
 feathers and miscellaneous articles of animal origin, trade and tariff information, summaries, 7540
 filling materials, classification, identification, and testing, Federal standard, change, 6982
 Fecundity:
 fertility—
 and childspacing, 12011
 persons and families, Mar. 1969, selected characteristics, 13763
 women, by number of children under 5 years old, current fertility by social and economic characteristics, census of population, 251
 Fedayeen, and Middle East crisis, 10521
 Feden, Robert H., oceanographic cruise summary, Gulf of Mexico, 13251
 Feder, Ernest, analytical and experimental studies for predicting noise attenuation in acoustically treated ducts for turbofan engines, 14570
 Federal, *see* headings beginning Government.
 Federal Advisory Council on Regional Economic Development, initial meeting, 1652
 Federal agencies, *see* Government offices.
 Federal aid, *see* Grants-in-aid.
 Federal airport act, *see* Airports.
 Federal assistance, *see* Grants-in-aid.
 Federal Aviation Administration:
 Administrator, nomination of John H. Shaffer, hearings, 9452
 air traffic activity, reports, 6926, 14183
 aircraft noise abatement program, 12582
 airmen other than flight crewmembers, certification Federal aviation regulations, 16978
 airworthiness directives, 12583
 large aircraft, summary, 3480, 9747, 12599
 supplement, 15695
 small aircraft, summary, 1856-57, 3481, 9748, 15696

Federal Aviation Administration—Con.
 appropriations, 1970, hearings, 16810
 aviation medicine FAA, 1966, report, 1610
 bibliographic list, 623, 8194, 9736, 11036
 consolidated listing of FAA certified
 repair stations, 1850
 contractions used in air traffic control,
 etc., handbook, 1554
 changes, 6423, 15025
 definitions, abbreviations, Federal aviation
 regulations, 4233
 enforcement procedures, regulations, 12583
 equal employment opportunity, 4248
 FAA aircraft program data feedback (pe-
 riodical), 2812
 FAA and expanding airmail traffic, staff
 study, 1851
 FAA controllers, etc., air traffic trainee
 aptitude-test measures, comparative
 study, 7723
 Federal airport act, operations, annual re-
 port, 11035
 Federal aviation regulations, 1852-54,
 3480-81, 4233-47, 5588-91, 6928-38,
 8195-8201, 9740-42, 11040-42,
 12583-584, 14184-186, 16976-980,
 15684-687
 definitions and abbreviations, 11402
 status, 3467
 fees for copying and certifying FAA rec-
 ords, Federal aviation regulations, 12583
 hand book series, 626, 1855, 4248-48A,
 5592-93, 6939, 8202-3, 9745-46, 11043-
 45, 12589-594, 14188, 16982-983,
 15689-690
 man in maintenance, reliability system,
 symposium, 5585
 merit promotion program, handbook,
 11043
 nondiscrimination in federally assisted
 programs, regulations, 12583
 public availability of information, FAA
 handbook, 9745
 publications, price list, 4867
 recurring reports, catalog, 15682
 rule making procedures, Federal aviation
 regulations, 4234, 5588, 12583
 safeguarding classified information hand-
 book, 626
 statistical handbook of aviation, 11039
 Systems Research and Development Ser-
 vice, scientific and technical reports, list,
 14938
 technical standard order authorization,
 regulations, 12583
 use of communication system, Federal avi-
 ation regulations, 12583
 Federal buildings, *see* Public buildings.
 Federal Bureau of Investigation:
 additional supergrade positions, establish,
 hearings, 12318
 career opportunities, 8206
 completion of FBI Academy in Quantico,
 Va., appropriations, 1970, amendment,
 proposal, 12247
 general information, 12602
 99 facts about FBI, questions and answers,
 11051
 special agents, employment outlook, 4507
 Federal career directory, guide for college
 students, 12041
 Federal career service at your service, 279
 Federal careers for journeymen in printing
 crafts, 6522
 Federal civil defense guide, 258-259, 1634-
 35, 6514, 9176
 Federal civil service, *see* Civil service.
 Federal Coal Mine Safety Board of Review:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 Federal Committee on Pest Control, pesti-
 cides monitoring journal (periodical),
 3251

Federal Communications Commission:
 actions in docket cases, reports, 2826
 actions on motions, reports, 2826
 activities—
 fiscal 1968, summary, 628
 hearings, 9354
 annual report, 6942
 appropriations, 1970, hearings, 9332,
 12285
 broadcasting or advertising of cigarettes,
 regulations prohibiting—
 hearings, 9356-59
 reports, 10717, 10725
 Chairman, nomination of Dean Burch,
 hearings, 16880
 crime and violence on television, policy
 matters, review, hearings, 9453
 decisions, reports, public notices, and other
 documents (periodical), 2827
 employee responsibilities and conduct, FCC
 rules and regulations, 2828
 fairness doctrine—
 legislative history, staff study, 6721
 report, 9304
 maritime services, radio stations on land,
 shipboard, etc., rules and regulations,
 2831
 Member, nomination of—
 H. Rex Lee, hearings, 1737
 Robert Wells, hearings, 16880
 memorandum opinions, etc., 3112
 nonbroadcast and general actions, reports,
 2826
 press releases, 3283
 public notices, 2826, 3283
 public safety, industrial, and land trans-
 portation radio services, recommended
 operating techniques and procedures
 manual, 5601
 report R series, 12604
 rules and regulations, 1860, 9749, 15697
 organization, 2828
 practice and procedure, 2828
 transmittal sheets, 2828-37
 Federal Council for Science and Technology,
 annual report, 11655
 Federal credit unions:
 accounting manual, 9751
 act, amend—
 hearings, 10772, 15420
 reports, 10747, 12189
 act, and related statutes, amended to
 Dec. 31, 1968, 5602
 bylaws, 9753
 Spanish edition, 5603
 credit manual, 16987
 credit unions and "tight" money, 12608
 development, 14191
 new automobiles as loan security, 11055
 regular reserves, 9754
 rules and regulations, 15700
 Federal Credit Unions Bureau:
 annual report, 629, 12606
 employment opportunities, information,
 9752
 research reports, 11055, 12608
 Federal Crop Insurance Corporation:
 appropriations, 1970—
 hearings, 7945
 reports, 9311, 12254
 audit reports, 6585, 7025
 Federal Deposit Insurance Corporation:
 annual report, 12609
 audit reports, 703, 9875, 12140
 financial statements, 1967, GAO examina-
 tion, 367
 report of call, 631, 9757
 Federal employees, *see* Government officials
 and employees.
 Federal Employees Board of Arbitration,
 establish, reports, 15265, 16787
 Federal employees compensation act, *see*
 Employers' liability and workmen's com-
 pensation.
 Federal Employees Salary Commission, es-
 tablish, reports, 15265, 16787

Federal employment, *see* Employment.
 Federal expenditures, *see* Finance—Program-
 ming (planning).
 Federal Extension Service:
 appropriations, 1970—
 hearings, 7945
 reports, 9311, 12254
 Extension Service review (periodical),
 2811
 Federal fair employment practice act, *see*
 Discrimination in employment.
 Federal Field Committee for Development
 Planning in Alaska:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 Federal Fire Council:
 library accessions, list, 3074
 recommended practices series, 15791
 slide library, list, 726
 Federal funds for research, development,
 and other scientific activities, 2322
 Federal Government, *see* Civil Service—
 Government.
 Federal grants for clean water, 5655
 Federal Health Programs Service:
 annual statistical summary—
 diagnostic and demographic data, 14792
 management data, 6179
 careers for nurses, 10296
 Federal Highway Administration:
 Administrator, nomination of Francis C.
 Turner, hearing, 6800
 appropriations, 1970, hearings, 16810
 college recruiting, 1968 report, 11058
 management career opportunities for ad-
 ministration majors, 15702
 need for improved appraisal for right-of-
 way acquisitions in Rhode Island, GAO
 report, 1945
 professional challenge and growth for
 accounting majors, 15703
 Federal Home Loan Bank Board:
 annual report, 14203
 appropriations, 1970, hearings, 9332, 12285
 digest, 2839
 financial statements—
 1967, GAO examination, 709
 1968, GAO report, 14316
 journal, 3021
 member, nomination of—
 Carl O. Kamp, hearing, 9450
 Preston Martin, hearing, 6778
 Thomas H. Clarke, hearing, 14018
 press releases, 3284
 Federal Home Loan Bank System:
 combined financial statements, 1968, mem-
 bers of System, 15705
 credit policy questions (address), 8208
 lending policy changes (address), 6944
 maintaining mortgage volume in tight
 money period (address), 11060
 Federal home loan banks:
 financial statements—
 1968, GAO examination, 15219
 1969, GAO examination, 14317
 Federal Hospital Insurance Trust Fund,
 Board of Trustees, *see* Board of Trustees
 of Federal Hospital Insurance Trust Fund.
 Federal Housing Administration:
 counseling service, housing help, 636
 FHA homes, insuring operations under sec.
 203, 1967 data for States and selected
 areas, 5607
 FHA-insured multifamily housing projects,
 prevailing wage requirements on con-
 struction, labor standards, 7069
 FHA monthly report of operations, 16989
 FHA regulations, 1865
 FHA title 1 property improvement loans,
 prepaid or refinanced, unearned charge,
 tables of factors for use in determining,
 638
 FHA's role in home improvement, 8400
 financial statements, GAO examination,
 707, 5323, 14318, 15223

Federal Housing Administration—Con.
 home mortgage insurance—
 area trends, 4256, 9778
 State trends, 4258, 9779
 loans for financing purchase of mobile
 homes, hearings, 15421
 loans for property improvement, dealer and
 contractor guide, 14388
 low cost housing trends of 1-family homes
 insured by FHA, 12614
 low FHA helps on home trade-ins, Spanish
 edition, 5745
 manual, mortgagee's handbook, home
 mortgage programs, revisions, 1867,
 14207
 mortgage insurance program—
 extend, reports, 15297, 15371, 16792
 hazardous geologic areas—
 hearings, 10787
 report, 15244
 manufactured housing, technically suit-
 able, 14205
 Rossmore Leisure World developments,
 decision not to require builder's cost
 certification, GAO report, 5686
 selection of purchasers of residential prop-
 erties sold by, GAO review, 7036
 technical standards training guides, 15709
 Federal intermediate credit banks:
 banks of farm credit system supervised by
 Farm Credit Administration audit
 reports, 4338, 5340
 Government capital, expedite retirement,
 hearing, 386
 Federal item identification guides:
 abrasives, 15496
 antenna, 12355
 bearing, plain, 15497
 boxes and crates, 6832, 15498
 brackets, 15499
 cabinets and racks, 530, 12356
 capacitors, fixed, 14085
 caps and plugs, 15500
 caps, radiator and tank, 6833, 16913
 coats and coat-like garments, 15501
 conduit, electrical, 8120
 conduit fittings, 531
 conduit outlets, 532, 5487
 connector, electrical, 12357
 contact sets, 15502
 control light, 8119
 covers and doors, access, 5503
 electric fuses, 9520
 electric posts, splices and terminals,
 change, 5488
 Federal item identification guides for sup-
 ply cataloging, supplements, 2840-50
 filter elements, 8121
 furnace and space heaters, 12358
 fuseholders, 9519
 gaskets, packings, and seals, 533, 8122,
 16914
 headset, electrical, 16915
 hose, pipe, and tube fittings, quick discon-
 nect and self-sealing, 16916
 hose, tubing and hose and tubing assem-
 blies, 15505
 improvement program procedures manual,
 529, 9517, 14082
 insulation sleeving, electrical, 6834
 insulation, thermal, 4128
 insulators, electrical, 6835
 jacks and plugs, 8123, 12359
 junction boxes, 8124, 14086
 keys and pins, 5489, 14087
 knobs, dials, and pointers, 15506
 lampholders, 15507
 lamps, 8125
 lens, lighting, 4130, 8126, 14088
 lift trucks, fork, platform, and pallet,
 14089, 15508
 lights, 10947
 lubricating oils, 8127, 10948
 medicaments, 14090
 microphones and microphone elements,
 15509

Federal item identification guides—Con.
nails, staples, and tacks, 15510
nuts, 14091
pipe and tube, metallic, 534, 15511
ranges, electric, gas, and oil burning, 535.
8128, 14092
resistors—
electric, 16918
fixed and adjustable, 16917
thermal, 15512
variable, 536
rings, wiping and sealing, 537
rivets, rivet caps and collars, 15513-514
rod and rod section, ground, 5490
screening and fencing, mesh, 16919
shaft collars and hub clamps, 5515
special valves, 15516
stuffing tubes and components, change,
5491
switch—
nonrotary, 15519
rotary, 15520
terminal boards, change, 15521
threaded fasteners, 5492, 14093
threaded studs, 5493
valves—
general purpose, and drain cocks, 4131.
8129, 16920
regulating, 15522
washers, 12360
Federal jobs overseas, 15147
Federal Judicial Center, annual report,
16748
Federal land banks, farm mortgage lending
experience, 6863
Federal lands, *see* Public lands.
Federal Law Enforcement Training Center,
Beltsville, Md., construction, proposed
project, hearing, 9494
Federal Library Committee, newsletter, 2894
Federal manual for supply cataloging, 526,
4123, 5477-78, 8112, 9510, 9512, 10943
Federal Maritime Commission:
activities, responsibilities, etc. (remarks),
1871
annual report, 15718
appropriations, 1970—
hearings, 10767
report, 12192
Commissioner, nomination of George H.
Hearn, hearings, 1737
decisions—
bound volumes, 1868, 15711
separates, 2851
orders, notices, rulings and decisions, 3229
policy (remarks), 15715
press releases, 3285
regulatory functions (remarks), 14210
role in shipping and shippers' problems
(remarks), 6946
SP series, 639-640, 1869-71, 4259, 5610-
14, 6945-46, 8209-10, 11065, 14208-211,
15712-716, 16992-993
Federal Mediation and Conciliation Service:
annual report, 5615
appropriations, 1970—
hearings, 9230
report, 12197
Director, nomination of James C. Counts,
hearing, 5461
Federal merit promotion policy, 12045
Federal meteorological handbooks, 306-307,
7797
Federal National Mortgage Association:
guaranties of participation certificates,
opinion of Attorney General, 4456
participation certificates issued, opinion of
Attorney General, 5879
press releases, 3286
Federal news clip sheet, 2853
Federal offenders in United States district
courts, 1495
Federal personnel manual, *see* Civil service.

Federal plan for meteorological services and
supporting research, 4218
Federal planning, *see* Economic policy.
Federal Power Commission:
annual report—
departmental edition, 4261
document edition, 3959
appropriations, 1970, hearings, 9332,
12285
career opportunities, 6948
daily news digest, 3196
FPC news, weekly compilation of press
releases, etc., 2923
jurisdiction, activities, organization, etc.,
hearing, 1963
Member, nomination of Albert B. Brooke,
Jr., hearings, 1737
organization and work, informal explana-
tion, 642
P series, 5617, 11066
practice and procedure rules, 2866
press releases, 3287
publications, lists, 4270, 14222
R series, 8212, 9781
recreation opportunities at hydroelectric
projects licensed by FPC, 11077
regulations under Federal power act, 3374
reports, opinions, decisions, and orders—
bound volume, 5616
errata, 14213
monthly, 2865
S series, 641, 1872, 4262, 8213-14, 11067,
15719, 16994
Federal Prison Industries, Inc.:
annual report, 8785
financial statements, 1968, GAO examina-
tion, 4339, 5342
Federal Prison Service, correctional officer,
examination announcement, discontinu-
ance notice, 16679
Federal probation (periodical), 2867
Federal procurement regulations, FPR
amendments, 2868
Federal program in population research,
16396
Federal programs which may support train-
ing of neighborhood residents for jobs in
neighborhood health centers, 6850
Federal property, *see* Public property.
Federal Radiation Council:
appropriations, 1970—
hearings, 9330
report, 12197
Federal Railroad Administration:
Administrator, nomination of Reginald N.
Whitman, hearings, 9452
appropriations, 1970, hearings, 16810
Federal register, 2869
codification guide, list of CFR sections
affected, 2870
index, 2871
Federal regulations, *see* Code of Federal
regulations—*also* subjects.
Federal Republic of Germany, *see* Germany.
Federal reserve agents fund, transactions,
2984
Federal reserve banks:
advances and discounts, regulations,
amts., 1891, 8248
condition statement, 2814
Federal reserve discount facility, proposed
changes, public reaction (remarks), 8245
Federal reserve discount mechanism, sys-
tem proposals for change, report, 5463
hours, opening and closing, and holidays,
3215
interdistrict settlement fund transactions,
2984
State member banks, list, 6977
see also other headings beginning Federal
reserve.
Federal reserve bulletin, 2872
Federal reserve chart book, financial and
business statistics, 2873

- Federal reserve member banks:
 assets, liabilities—
 and capital accounts, 2587
 monthly report, 2612
 summary report, 2613
 changes in State bank membership, weekly
 announcement, 2654
 deposits—
 money supply, currency, etc., 3129
 payment of interest, regulations, 12642-
 643
 reserves, and borrowings, biweekly re-
 port, 2764
 income—
 1967, statistical release, 6975
 1969, statistical release, 8242
 member State banks, equity security trans-
 actions and ownership of directors, etc.,
 monthly summary, 3482
 minimum security devices and procedures
 for Federal reserve banks and State
 member banks, 4279
 payment of interest on deposits, Federal
 reserve regulation Q., 4280
 reserves—
 factors affecting, 2814
 regulations, 12639, 14230
 supplement, 14231
 State member banks, lists, 3458, 6977
 Federal reserve par list, 2874, 5643
 Federal reserve system:
 discount facility, proposed changes, public
 reaction (remarks), 8245
 discount mechanism, proposals for change,
 report, 5403
 Federal reserve act, amend—
 law, 341, 16737
 report, 15376
 Federal Reserve discount policy in per-
 spective (paper), 652
 foreign exchange operations, 1892, 8253,
 15733
 monetary policy guidelines and Federal
 reserve structure, compendium, 6706
 State banking institutions, membership,
 regulations, amdt., 8249
 Federal Reserve System Board of Governors:
 annual report, 9822
 applications and reports received, or acted
 on, 2597
 authority, rules regarding delegation,
 amendments, 8251, 15733
 Federal Reserve-MIT econometric model,
 staff study, 11137
 hours, opening and closing, and holidays,
 3215
 press releases, 3288
 publications, lists, 4276, 11135
 regulation series, 1891, 4278-80, 8248-49,
 12639-647, 14230-233, 15729-731
 research library, recent acquisitions, 3385
 rulings regarding loan production offices
 and purchases of operating subsidiaries,
 hearings, 394
 statistical releases, 2619
 Federal retirement systems, *see* Civil service
 pensions.
 Federal revenue and expenditure estimates
 for States and regions, fiscal years 1965-
 67, 1701
 Federal Safety Council, safety aids decision-
 making, 5757
 Federal savings and loan associations:
 combined financial statements, 697
 rules and regulations, 12613
 Federal Savings and Loan Insurance Cor-
 poration:
 audit reports, 5343, 5683, 17057
 financial statements, 634, 5605, 9775,
 14202
 savings and loan associations, insured
 savings and mortgage lending activity,
 selected balance sheet items, 2920
 Federal service, *see* Civil service.
 Federal specifications, *see* Government sup-
 plies.
 Federal standards, 659, 4248-85, 5647-48,
 6980-82, 8255-57, 9828-30, 11139-142,
 14236-237, 15736
 index, 8260
 Federal standards policy program (address)
 13805
 Federal-State-local relations, *see* Intergov-
 ernmental relations.
 Federal Supplementary Medical Insurance
 Trust Fund, Board of Trustees, *see* Board
 of Trustees of Federal Supplementary
 Medical Insurance Trust Fund.
 Federal supply catalog, *see* Government sup-
 plies.
 Federal supply classification handbook, 6823
 Federal supply code, *see* Government sup-
 plies.
 Federal support to universities and colleges,
 7362
 Federal test method standards, 5650, 6983,
 8259, 11143, 12651-652, 17004
 Federal textbook on citizenship, 12819
 Federal Trade Commission:
 advisory opinion digests, 15738
 annual report—
 departmental edition, 11144
 document edition, 10693
 appropriations, 1970, hearings, 9332,
 12285
 automobile warranties, staff report, 1894
 cigarettes, alphabetical by brand, tar and
 nicotine content (poster), 11608
 Commissioner, nomination of A. Everette
 MacIntyre, hearings, 1737
 consumer bulletins, 9831, 14238
 decisions, bound volume, 11145
 District of Columbia consumer protection
 program, report, 6984
 fight back, the ungente art of self de-
 fense, 6985
 guides against deceptive advertising of
 guarantees, 6987
 national consumer protection hearings,
 17005
 news summary, 2885
 press releases, 3289
 statutes and court decisions—
 1966 supplement, 661
 1967 supplement, 5653
 Federal Water Pollution Control Adminis-
 tration:
 appropriations, 1970—
 hearings, 12204
 report, 15298
 career opportunities, your career and
 clean water for America, 1900
 Federal grants administered for clean
 water, 5655
 press releases, 3290
 project register, distribution by river basin
 of projects approved, 6990
 Federal Way area, Wash., ground water,
 availability, 9883
 Federal work injury facts (series), 15645
 Federalism and the academic community,
 brief survey, 7565
 Federalism in education, role of Federal Gov-
 ernment, 10980
 Fedor, J. V., Explorer XXXV attitude control
 system, 11451
 Feed, *see* Food for livestock.
 Feed grains, *see* Grain.
 Feed systems (antennas), *see* Antennas.
 Feedback, FAA aircraft program data, 2812
 Feeders:
 cattle, marketing aids, 1508
 self-feeder for cattle, farm building plan,
 6387
 sow, portable, farm building plan, 16551
 Feeding programs (space flights), *see* Menus
 for spaceflight.
 Feedlots, beef cattle feedlots in California,
 Colorado, and western Corn Belt, char-
 acteristics, 6385

Fees:

- attorneys, for services rendered to persons having claims against U.S., restore right to choose own counsel, hearing, 405
- entrance, admission and user, Operation Golden Eagle, 1969, directory of Federal recreation areas, 7393
- FAA records, fees for copying and certifying, Federal aviation regulations, 12583
- foreign countries for visa of United States passports, list, 7483
- grazing fees for use of Federal lands, increase, hearings, 10790
- grazing, on public lands, hearings, 9471
- higher education, basic student charges, tuition, and fees for board and room, 4175
- Immigration and Naturalization Service and United States marshals, need to revise fees for services provided, GAO report, 5785
- license fees under Perishable agricultural commodities act of 1930, increase—
 - hearing, 13912
 - reports, 16775, 16870
- physician fee increases for selected procedures, magnitude and frequency, 10370
- shippers recovery of attorney's fees, hearing, 15429
- visas, abolition of certain visa fees, agreement with Romania, 11741
- witnesses before House of Representatives, increase, report, 13908
- Fehlberg, Erwin:
 - classical 5th-, 6th-, 7th-, and 8th-order Runge-Kutta formulas with stepsize control, 1145
 - low-order classical Runge-Kutta formulas with stepsize control and their application to some heat transfer problems, 11501
- Feistel, Terrell W., investigation of direct side-force maneuvering system on deflected jet VTOL aircraft, 8638
- Feldmann, H. F., calculating equilibrium compositions of multiconstituent, multi-phase, chemical reacting systems, 10058
- Feldspar:
 - minerals yearbook chapter, 16075
 - separation from granite, 7215
- Fellman, David, foreign trade regulations of Canada, 9201
- Fellowships:
 - education professions development act—1969-70 programs, institutes, summer, part-time academic year, 4167
 - 1970-71 programs, facts, 9651
 - graduate, program in educational research, 4173
 - higher education, 1969-70, personnel training programs, 5541
 - international postdoctoral research, Public Health Service, 1968 awards for study in U.S., 6065
 - national defense education act, awards for modern foreign languages and area study, 5533
 - national defense, graduate 1969-70 programs, 4179
 - National Institutes of Health—
 - postdoctoral research, 16262
 - predoctoral research, 16263
 - research, information and eligibility criteria, 16349
 - special research, 17278
 - National Science Foundation, 4811
 - senior fellowships, 1970-71 announcement poster, 14697
 - summer/part-time academic year, educational personnel development programs, 1969-70, handbook for directors, 1810
 - summer stipends for younger humanists, 14678
 - tax information, 8451

Felt:

- performance of roofing made with Asplund felts, 7326
- trade and tariff information, summaries, 10132

see also Roofing.

Females, *see* Women.

Fence posts:

- air drying, chemical control of bostri-chidae, 12709
- use of treated posts up, new farm fencing declines, 17019

Fences:

- and screening, mesh, Federal item identification guide, 16919
- classification definitions, 11579
- new farm fencing declines, use of treated posts up, 17019

Fencing, *see* Fences.

Feng, Chi Jen, relief, 8001, 10699, 12090

Fennon, soil-applied, for selective control of brush on chaparral watersheds, 14283

Ferber, Ellen, it's Y.O.U., 14136

Fergus, Andrew J., flotation characteristics of some beryllium minerals and associated gangue minerals, 976

Ferguson, Carl E., getting Congolese agriculture moving, 8489

Ferguson, E. R., managing eastern redcedar, 8315

Ferguson, Robert E., return to work after severe disability, 6230

Ferguson, Walter L., farm labor used for fruits and tree nuts, 1964, 8991

Ferman, Louis, job development for hard-to-employ, 14441

Fermentation, research, publications and patents, Northern Utilization Research and Development Division, Peoria, Ill., 8

Fernandez, Joaquin, J. V., relief, 10828

Fernandez, Lionel, medical research and education activities of foundations and non-profit research institutes, 4785

Fernandez-Domiguez, Eduardo, relief, 4034

Fernandez-Gonzalez, Jose R., relief, 4014

Ferrante, M. J., recovery of rhenium from tungsten-rhenium alloy, 10055

Ferrians, Oscar J., permafrost and related engineering problems in Alaska, 12786

Ferric sulfate, thermodynamic data, 11393

Ferries:

- allow operation of foreign-built vessel by Alaska to ports in Seattle for limited time, hearings, 1706
- toll facilities in United States, 4906

Ferrites, attenuator based on ferrite resonance switch, 16611

Ferro, Fermin, relief, 4017

Ferroalloys, titanium and ferrous alloys, correlation of two fracture toughness tests, 7380

Ferrochromium, beneficiation by molten salt electrolysis, 4647

Ferrokines, modified 59 Ferrokine procedure, 13632

Ferromagnetism, *see* Magnetism.

Ferromagnets, *see* Magnets.

Ferrosilicon, mineral industry survey, quarterly, 2888

Ferrous metals:

metalliferous deposits near Granite Mountain, eastern Seward Peninsula, Alaska, 5712

spectrophotometric procedure for determination of trace amounts of cobalt in ferrous alloys, 10266

Fertility, *see* Fecundity.

Fertilizers:

commercial, consumption in U.S., 49S1, 8903

effects on food chain organisms and fish production in Norris Reservoir, Tenn., 1473

fertilizer abstracts (periodical), 2889

nitrogen, and alfalfa, influence on pasture productivity of crested wheatgrass, 6401

- Fertilizers—Continued
nitrogen growth response of 35 year-old,
site V Douglas fir, 4317
supply, 6365
TVA fertilizer science for the Nation,
16502
- Fescue, fescue covered spoil banks, tree sur-
vival and growth on, 15757
- Fess, Lawrence R., preliminary results of
5263 X-ray protection surveys of facilities
with medical X-ray equipment, 6189
- Fessler, Theodore E., excited states of xenon
130 populated by beta decay, 13110
- Fetterman, William J., massacre of, Fort
Phillip Kearney, investigation records,
microcopy, pamphlet to accompany, 1169
- Fetus:
and new born, hemolytic disease due to
RII isoimmunization, 13777
impact injury to pregnant female and
fetus in lap belt restraint, 10580
- FFA, *see* Future Farmers of America.
- Ffolliott, Peter F.:
observations of snowpack accumulation,
melt, and runoff on small Arizona water-
shed, 5676
some characteristics of forest floor under
ponderosa pine in Arizona, 9847
- FG series, 260-261A, 1636, 6515
- FHA, *see* Farmers Home Administration—
Federal Housing Administration.
- FHL series, 10385-391, 11680-684, 13449-
450
- Fiberboard boxes, *see* Boxes.
- Fiberglass, *see* Glass fibers.
- Fibers:
cotton, man-made fiber textile industries,
earnings and supplementary benefits,
5909
fiber-reinforced composite facings, sand-
wich conical shells with, vibration
evaluation, 6456
fiber-reinforced plastic laminates under
uniaxial, biaxial, and shear loadings, be-
havior, 6457
food and fiber policy for future, 8784
oblique loading of unidirectional fiber
composites, shear loading, 6455
surface chemistry of plastic reinforced by
strong fibers, 14755
synthetic, dangers of flammable clothing,
13336
textile, trade and tariff information, sum-
maries, 10432
vegetable, foreign agriculture circulars,
2902
see also Cotton—Textiles—Wood fiber—
also names of certain plants, textiles,
etc.
- Fibrin, fibrinolysis, thrombolysis and blood
clotting, bibliography, 1968 annual com-
pilation, 8685
- Fibrinolysis, *see* Fibrin.
- Fibroblasts, L-strain, mitotic synchroniza-
tion with 5-aminouracil as determined by
time-lapse cinematography, 4744
- Fibrous glass, *see* Glass.
- Fichman, Philip J., relief, 13883
- Fichter, W. B., stress concentration around
broken filaments in filament-stiffened
sheet, 16191
- Fidalyun, *see* Fedayeen.
- Fiecher, R. P., mineral resources of Uncom-
pahgre primitive area, Colo., 733
- Field artillery gunnery and naval gunfire
support, 7621
- Field crops, *see* Crops.
- Field directory, IFEW, 760.
- Field manuals, *see* names of departments,
etc., issuing manuals.
- Fields, Roger A., evaluation of infrared heat-
ing simulation of Mach 4.63 flight on X-15
horizontal stabilizer, 16165
- Fieno, Daniel, analysis and experiments with
pulsed neutron source for unreflected solu-
tion reactor up to \$50 shutdown, 17235
- Fight back, the ungente art of self defense,
6985
- Figs, growing in South for home use, 16540
- FIHIC, *see* Federal item identification guides.
- Fiji Islands:
background notes, 16460
economic trends and their implications for
United States, 5792
- Filamentary materials, filamentary com-
posites, failure criteria, 14618
- Filaments:
bonded to metals reinforced on surface,
compressive properties and column
efficiency, 1101
boron-epoxy and glass-epoxy filament-
wound cylinders, mechanical behavior,
under various loads, 7256
boron-filament-reinforced epoxy rings and
belts, tensile behavior, 6008
stiffened sheet, stress concentration around
broken filaments, 16191
void content in glass-filament-wound
composites, nondestructive testing, 7382
- Files and filing (documents):
extracting information from Geo-sort file
by computer programing, 13215
files maintenance and disposition, DSA,
manual change, 5485
managing emergency preparedness files,
Federal vital records program, records
management handbook, 8664
- Files, pension and bounty-land warrant ap-
plications in National Archives, 6030
- Filho, Luiz G. C., hydrogeology of upper
Capibaribe Basin, Pernambuco, Brazil,
reconnaissance in area of crystalline rocks,
11251
- Filing cabinets, steel, legal and letter size,
vertical, Federal standard, 8255
- Fillers (in wood, metal, etc.):
friction and wear of 9 polymers with
various fillers in liquid hydrogen, 6018
- Filling:
and emptying system, Dardanelle Lock,
Arkansas River, hydraulic model investiga-
tion, 9717
remote, of underground cavities and pas-
sageways, use of fly ash, 982
- Film boiling, *see* Boiling.
- Film strips, *see* Filmstrips.
- Films (chemical):
stability of thin liquid film adjacent to
high-speed gas steam, analysis, 4713
- Films (coatings):
NASA contributions to fluid-film lubrica-
tion, survey, 10101
oxide films in high-temperature aqueous
environment, growth characteristics of
iron oxide films generated in dilute
lithium hydroxide solution at 300°C,
1261
plastic, investigations for canal linings,
16392
polyethylene, polypropylene, and poly
(ethylene terephthalate), molecular
orientation and mechanical anisotropy,
14628
solvent-cast thin films of polyamides and
polypeptides, wettability and Mair in-
frared spectroscopy, 2354
sputtered molybdenum disulfide films, some
low-resistivity metals lubricated with
friction and contact resistance during
sliding in vacuum, 13124
superconduction thin films, 1014, 2186
thin film oxygen partial pressure sensors,
investigation, 1010
wettability of fluorocarbon and chlorocar-
bon trialkoxysilane films adsorbed on
glass and metal surface, 7388
see also Monomolecular films.
- Films (coverings):
wrapping films, selected, for fresh meat
packaging, evaluation, 7569
- Films (metallic), *see* Metallic films.

Films (photography):
planetary film reconnaissance system, 11412
see also Filmstrips—Motion pictures.

Filmstrips:
color, Agriculture Dept., list, 1512
Federal Fire Council slide library, list, 726
National Archives and Records Service, list, 2273
urban outlook, bibliography, 12816
use of slides, etc., of paper money, postage and revenue stamps, and other obligations and securities of United States and foreign governments, 14851

Filmstrips:
catalog of copyright entries, 519, 520, 4118
color, Agriculture Dept., list, 1512
Library of Congress catalog, 3070
NASA film list, 11425
Office of Juvenile Delinquency and Youth Development, 10365
urban outlook, bibliography, 12816
what's new on smoking, 6214

Filters and filtration:
computer-aided filter design manual, 14600
conventional low-pass filters, pulse-response curves, 17241
filter elements, Federal item identification guide, change, 8121
hyperfiltration membranes, water transport, 5761
laminar and turbulent hyperfiltration systems, mass transfer, 7085
natural filtering of suspended soil by stream at low flow, 8291
multisection waveguide directional filter, description, 1569
yellow lenses in Air Force operations, 3701

Filtration, *see* Filters and filtration.

Finance:
accounting and finance manual, DSA, changes, 4126, 10945, 14084
advances for public works planning, 12813
agricultural review, 9642
AM-FM broadcast financial data, 6941
city government, 247, 12016
civil service retirement financing and benefits, amend U.S. Code—
hearings, 6727, 12317
reports, 7902, 7923, 15359
code of Federal regulations, 6962
county governments, statistics, census of governments, 9117
daily statement of Treasury, 2741
export expansion, export financing and U.S. balance of payments (paper), 9823
family finances, publications, price list, 4868
farm financial management research, theoretical analysis, 570
farm firms, partitioning financial returns, applicable to growth, 4156
Federal fiscal policy in 1960's, 1888
Federal outlays, Report of Federal Government's impact by State and county—
Alabama, 9533, 9583
Alaska, 9534, 9784
Arizona, 9535, 9585
Arkansas, 9536, 9586
California, 9537, 9587
Colorado, 9538, 9588
Connecticut, 9539, 9589
Delaware, 9540, 9590
District of Columbia, 9541, 9591
Florida, 9542, 9592
Georgia, 9543, 9593
Hawaii, 9544, 9594
Idaho, 9545, 9595
Illinois, 9546, 9596
Indiana, 9547, 9597
Iowa, 9548, 9598
Kansas, 9549, 9599
Kentucky, 9600, 15613

Finance—Continued
Federal outlays, Continued
Louisiana, 9550, 9601
Maine, 9551, 9602
Maryland, 9552, 9603
Massachusetts, 9553, 9604
Michigan, 9554, 9605
Minnesota, 9555, 9606
Mississippi, 9556, 15614
Missouri, 9557, 9607
Montana, 9558, 9608
Nebraska, 9559, 15615
Nevada, 9560, 9609
New Hampshire, 9561, 9610
New Jersey, 9562, 9611
New Mexico, 9563, 9612
New York State, 9564, 9613
North Carolina, 9565, 9614
North Dakota, 9566, 9615
Ohio, 9567, 9616
Oklahoma, 9568, 9617
Oregon, 9569, 9618
Pennsylvania, 9570, 9619
Rhode Island, 9571, 9620
South Carolina, 9572, 9621
South Dakota, 9573, 9622
Tennessee, 9574, 9623
Texas, 9575, 9624
trusts and territories, 9625
Utah, 9576, 9626
Vermont, 9577, 9627
Virginia, 9578, 9628
Washington State, 9579, 9629
West Virginia, 9580, 9630
Wisconsin, 9581, 9631
Wyoming, 9582, 9632

financial assistance for nonprofit sponsors of low and moderate income housing, 5741

financial developments in—
1968—
3d quarter, 1889
4th quarter, 5644
1969—
1st quarter, 12635
2d quarter, 14229

financial innovation and monetary management in United States (paper), 12636

financial management systems series, 6503

financial resources problem (remarks), 1479

financial statements—
Commodity Credit Corporation, 1968, GAO examination, 6583, 7029
Federal Deposit Insurance Corporation, GAO examination, 367
Federal Home Loan Bank Board, GAO examination, 709, 14316
Federal home loan banks, GAO examination, 14317, 15219
Federal Housing Administration, GAO examination, 707, 5323, 14318, 15223
Federal Prison Industries, Inc., GAO examination, 4339, 5342
Federal Savings and Loan Insurance Corporation, 634, 5605, 9775, 14202
form and content, 1375
Gorgas Memorial Laboratory, 5325
Government Printing Office, GAO examination, 708, 12743
low-rent public housing program fund, Housing and Urban Development Dept., GAO audit, 5684, 9252
Saint Lawrence Seaway Development Corporation, GAO audit, 6587, 7026
savings and loan associations of Federal Home Loan Bank System, 15705
Southwestern Federal Power System examination, GAO report, 1943
Tennessee Valley Authority—
annual, 2514
GAO examination, 7030, 7817
Veterans Canteen Service, GAO audit, 1940

Do not order from index; see indicated entry

Page 259

Finance—Continued

financial statements—continued
 Virgin Islands Corporation—
 GAO examination, 9876
 (in liquidation), fiscal years 1967-68,
 GAO examination, 12139
 financial statistics of institutions of higher
 education, 4170, 12433
 financing community facilities by Housing
 and Urban Development Dept., GAO
 review, 4344
 financing higher education, compendium
 of papers, 16746
 financing in Soviet public health, USSR
 study, 15932
 financing industrial development through
 State and local governments, 565
 fiscal impact of social security program,
 4938
 fiscal policy and inflation (address), 17427
 forest fire control, cooperative financing,
 7000, 15751
 General Accounting Office findings, etc., for
 improving Government operations, com-
 pilation, 1941, 3965
 government finances, GF series, 247, 1622-
 23, 9161, 10609, 12016-17, 16669
 governmental, 1966-67, 1622, 9161
 governmental fiscal years in 1967, 16670
 grants-in-aid and other financial assist-
 ance program administered by Health
 Services and Mental Health Adminis-
 tration, 16344
 housing and financing (remarks), 17000
 housing production and finance, 6974
 institutions of higher education—
 1965-66, statistics—
 current funds, revenues, and expendi-
 tures, 4169
 property, 9653
 1966-67, statistics—
 current funds, revenues, and expendi-
 tures, 12432
 property, 15631
 1967-68, selected statistics, 16963
 International Development Agency, loan
 program financial activities, status,
 June 30, 1968, GAO review, 14305
 issues in financing old-age and survivors
 insurance, 2108
 joint financial management improvement
 program, annual report, 4337
 link between reserve creation and financial
 assistance to developing countries, hear-
 ings, 10689
 low-rent housing financing handbook, 15823
 manufacturing corporations, quarterly re-
 port, 3354
 municipal financing of public facilities,
 hearings, 344
 municipalities and township governments,
 statistics, 1967, census of governments,
 11994
 National Guard, quarterly review of State
 operating budget, administration, 6057
 omnibus crime control and safe streets act
 of 1968, financial guide for administra-
 tion of planning and action grants,
 15992
 public school programs, States and out-
 lying areas, 6897
 receipts and expenditures of U.S.—
 combined statement, 5009
 monthly statement, 3142
 receipts, selected services, monthly report,
 2727
 rehabilitation financing, RAA programs
 handbook, 5743
 school districts finances, census statistics,
 9116
 short and long of it (remarks), 1480
 special districts, statistics, census of gov-
 ernments, 11993
 State and local finances, significant fea-
 tures, 5013
 State and local government, State reports,
 1616

Finance—Continued

State and local governmental, in North
 Central States, 16947
 State government finances, 10609
 State operating budget, National Guard,
 formulation, pamphlet, 8681
 statistics, Federal reserve chart book, 2873
 historical supplement, 654, 16999
 survey of progress in implementing plan-
 ning-programming budgeting system in
 executive agencies, GAO report, 12751
 toward a new fiscal federalism (remarks),
 14953
 treasury bulletin, 3528
 union financial statistics, 1963-1966, se-
 lected data for labor organizations filing
 annual reports under Labor-manage-
 ment reporting and disclosure act, 11332
 USSR economy and industry, reports on
 economy, finance, and planning at Re-
 public Supreme Soviet Sessions, 5819
 see also Credit—Inflation (finance)—In-
 ternational finance.
 Finance Committee, Senate:
 additional clerical assistants, report, 4053
 calendar, 3058
 committee prints, 4006, 5438-40, 7983,
 8060, 9457, 12244, 12293, 12295, 14024,
 14026-30, 15434-448, 16883
 hearings, 4076-77, 6783, 10894-896,
 12294, 12296, 14025, 15432, 15449
 House-passed tax bills pending, July 18,
 1967, summary, 466
 recommendations made in hearings on
 H.R. 6098, interest equalization tax ex-
 tension act of 1967, summary, 465
 reports, 449, 453, 6760, 8019, 9436-39,
 10844-848, 10874, 10876, 12270, 13997,
 15377-381, 15406
 summary of H.R. 6098, interest equaliza-
 tion tax extension act of 1967, 464
 Finance companies:
 business financing by business finance
 companies, 5642
 consumer credit at consumer finance com-
 panies, 2698
 sales finance companies, monthly report,
 3408
 Finance decisions, see Interstate Commerce
 Commission.
 Financial assistance, see Grants-in-aid.
 Financial institutions, see Banks and
 banking.
 Financial Management and PPE Training
 Center, schedule, announcement, 7774
 Financial statements, see Finance.
 Financial statistics, see Finance.
 Financing subway system for National Cap-
 ital region, 10893
 Finch, Harold L., computer program for cal-
 culating external thermal-radiation heat
 loads and temperatures of spacecraft or-
 biting the planets or the moon, 6023
 Finch, Robert H., nomination, hearing, 4076
 Finding jobs for Negroes, kit of ideas for
 management, 11331
 Findlay, Donald J., status report of Omega
 and a NAVOCEANO test, 13242
 Fine, M. M., metallization of iron ores with
 solid reductants, 14554
 Fine, Paul M., psychiatric strengths and
 weaknesses of typical Air Force pilots,
 3717
 Fine Arts Commission:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398
 Fine Arts, National Collection, see National
 Collection of Fine Arts.
 Finerty, Joseph M., employment and earn-
 ings, and monthly report on labor force,
 2791
 Finger, Harold B.:
 address, Aug. 6, 1969, 12808
 nomination, hearings, 8054
 Fingerprints, single fingerprint identification
 system, semi-automated, 7329

Finishing beef cattle, 16538
 Finite difference methods, finite-step method for calculation of theoretical load distributions for arbitrary lifting-surface arrangements at subsonic speeds, 13114
 Fink, Marvin P.:
 aerodynamic data on large semispan lifting wing with 0.4 diameter chord, single-slotted flap and single propeller 0.22 chord below wing, 4741
 full-scale investigation of aerodynamic characteristics of sailing of aspect ratio 5.9, 6007
 full-scale wind-tunnel investigation of static longitudinal and lateral characteristics of light twin-engine airplane, 4716
 pressure distribution of large semispan lifting wing with 0.4-diameter chord, single-slotted flap, and single propeller 0.22 chord below wing, 17231
 Finland:
 ambassador, nomination of Val Peterson, hearing, 8065
 background notes, 10407
 economic trends and their implications for United States, 2032, 9901
 establishing business in, 16708
 market factors, 7800
 mineral industry, minerals yearbook chapter, 17182
 Finnish language, Foreign Service Institute graded reader, 1441
 Fins (aircraft):
 tables and graphs of functions necessary for solving nonlinear heat transfer constant area fin problems, 10119
 Fiorica, Vincent, table for converting pH to hydrogen ion concentration $[H^+]$ over range 5-9, 9089
 FIPS (Federal information processing standards), see Standards and standardization.
 Fir:
 balsam, heart rots, 11163
 Douglas—
 estimating defoliation by western budworm, 14287
 field grown grafts, effect of graft type on 6 month scion survival, 15759
 flakeboard, laboratory-made, durability, 1912
 gluing fire-retardant-treated Douglas-fir and western hemlock, 4304
 inland, constructing site index curves from measurements of tree age and height, and its application to, method, 690
 intensive culture, 14267
 landscape management, economic evaluation and choice, 1932
 reforestation in southwestern Oregon, economic guides, 5917
 region, timber measurement problems, bibliography, 4329
 seed orchard, cooling to avoid pollen contamination, 12705
 seedlings—
 can auger planting improve survival? 12703
 survival and growth, effects of protection from deer, 7010
 spring-season deer browsing, Capital Forest, western Washington, 4315
 supply study, alternative programs for increasing timber supplies from national forest lands, 12676
 35-year-old, site V, growth response, to nitrogen fertilizer, 4317
 tussock moth populations, sequential sampling, 12706
 forest, tree shadow pattern and illumination measurements within clearcut strips and irregular openings, 4320
 red, dwarf mistletoe infection and control, 12715

Fir—Continued
 timber, response of deer to alternate-strip clear-cutting of lodgepole pine and spruce-fir timber in Colorado, 14284
 white, estimating defoliation by western budworm, 14287
 Fire control, see Forest fires.
 Fire control (gunnery):
 equipment, Federal item identification guides for supply cataloging, supplements, 2850
 instruments, lubrication, military standard, 551
 Fire Creek, W. Va., railroad accident, report, 11087
 Fire extinguishing agents corrosion resistance of some common metals to concentrated and 6% solutions of light water, 17315
 Fire lighters, see Firemen (firefighters).
 Fire fighting, see Fires.
 Fire Prevention and Control, National Commission on, see National Commission on Fire Prevention and Control.
 Fire protection, see Fires.
 Fire-resistant material, glove evaluation for gloveboxes, fire safety application, 13720
 Fire-retardant coatings, see Coating materials.
 Fire retardants, see Fires.
 Firearms:
 commerce in firearms, internal revenue regulations, 4421
 gun control act of 1968, text, 4409
 published ordinances, State laws and local ordinances relevant to Title 18, U.S.C., chap. 44, 811
 revenue rulings, etc., internal revenue bulletin, cumulative, index-digest supplement system, 12822, 14114
 small arms, preservative-lubricant, 1265
 taxes, internal revenue bulletin, index-digest, 2993
 violence and firearms in American life, 13321
 Firefighters, see Firemen (firefighters).
 Firefighting apparatus, Federal item identification guides for supply cataloging, supplements, 2844
 Firemen (firefighters):
 District of Columbia—
 examination announcement, amendment, 5248
 include members in Metropolitan Police Department Band, report, 12178
 retirement benefits, equalize for totally disabled, report, 12174
 survivor benefits for widows of retired members, report, 12173
 employment outlook, 4508
 examination announcement, amdt., 9180
 Firemen (stokers):
 bollerman 1 & C, Navy training course, 6130
 Fireplaces, and chimneys, general information, 33
 Fires:
 accident reports involving fire, analysis, 17194
 computer calculation of fire danger, 17024
 Federal Fire Council recommended practices series, 15791
 fire loads in modern office buildings, survey and evaluation techniques, 2282
 fire protection program, operational procedures, Air Force manual, 73
 fire-retardant-treated Douglas-fir and western hemlock, gluing, 4304
 fire retardant treatments for particleboard, exploratory investigation, 17017
 firefighting exercises, manual, 14740
 glovebox fire safety application—
 fire resistant glove materials, evaluation, 13720

Fires—Continued

- glovebox fire safety application—con.
- glovebox window materials, 6474
- mechanical vacuum pumps, control and reduction of oil mists, 13719
- life safety from fire, guide for housing the elderly, 785
- motor carriers, accidents involving fire, Jan.-June 1968, analysis of reports, 8584
- protection for essential electronic equipment, 15791
- retardant paint system for nuclear submarine interiors, 14749
- rural defense in wartime, mission, organization, coordination, 11881
- rural, prevent 'em or fight 'em?, 8987
- safety and fire protection bulletin, VA, 3404
- safety measures for aircraft fuel systems, conference report, 4288
- shipyard hazards, maritime safety data, 14445
- simplified test for adhesive behavior in wood sections exposed to fire, 4305
- suppression fires to control wildfires in Southeast, guidelines, 7018
- tank vessels, fire fighting manual, 3888
- use of air tankers pays off, case study, 17033
- wildfires, unusual wind shifts, 8312
- see also Arson—Forest fires.
- Fireworks, see Pyrotechnics.
- First aid:
 - and emergency medical treatment, training, 11939, 16588
 - flooded homes and farms, 6370
 - general military training, Air Force pamphlet, 5080
- Fiscal accounting, see Accounts and accounting.
- Fiscal policy, see Finance.
- Fischer, R. P., interpreting pan-concentrate analyses of stream sediments in geochemical exploration for gold, 112235
- Fish and fisheries:
 - Alabama landings, 2585
 - anadromous fish conservation act of 1965, amend, hearings, 409
 - antimycin A as fish toxicant—
 - field trials, 10393
 - laboratory studies, 10393
 - Appalachia, effects of surface mining, report, 1427
 - Aral Sea asp *Aspius aspius ibioides*, biological data, USSR study, 15906
 - Atlantic coastal fishes, estuarine dependence, studies, 17397
 - BCF acoustic workshop, proceedings, 13821
 - blue-sac disease of fish, 11686
 - California landings, 2640
 - canned fishery products—
 - 1967 annual summary, 9217
 - 1968 annual summary, 9221
 - catfish farming, new farm enterprise, 1517
 - Chesapeake fisheries, annual summary, 13813
 - code of Federal regulations, 8232
 - columnaris disease of fishes, 11687
 - commercial fisheries abstracts, 2676
 - commercial fisheries review, 2677
 - conservation, modify operation of Kortes unit, Missouri River Basin project, Wyo., report, 442
 - control, regulation, and management on Federal lands, by States, hearing, 16881
 - current fishery statistics, CFS series, 318-319, 1665, 2585, 2640, 2892-93, 2895, 2926, 2939, 2948, 3092, 3095, 3107-8, 3117, 3125, 3187, 3195, 3205, 3394, 3437, 3445, 3495, 3575, 3910-16, 5295-96, 7808-10, 9217-22, 10662-663, 13811-816, 15182-183, 16711
 - echosounder used in measuring distribution of reservoir fish, 7475

Fish and fisheries—Continued

- effects of pesticides on sports and commercial fisheries, hearings, 15425
- efficacy of quinaldine as anesthetic for seven species of fish, 10382
- empirical equation for determination of maximum side-aspect target strength of individual fish, 10220
- endangered species, prevent importation and interstate shipment of—
 - hearings, 7967, 12290
 - report, 12190
- fertilizer effects on food chain organisms and fish production, 1473
- fish and fishing around TVA steam plants, 14942
- fish and wildlife act of 1956, as amended, text, 3919
- fish and wildlife coordination act, amend—
 - hearings, 12236
 - reports, 12185-186, 15276
- fish and wildlife restoration, Federal aid, 1426
- fish locomotion, eddy formation and boundary layer, USSR study, 15931
- fish monitoring investigations, Browns Ferry Nuclear Plant, Wheeler Reservoir, Ala., 7544
- fish passage report, Bonneville, The Dalles, John Day, McNary, and Ice Harbor Dams, 14148
- fish-passage research, review of progress, 1666
- fish products, trade and tariff information, summaries, 10430
- fish recipes, type A school lunches, quantity, cost per portion, 12074
- fisheries, agreement with Japan, 6292
- fishery bulletins, 322, 1667, 3922, 12075
- fishery industrial research, 3923
- fishery leaflets, 323-324, 1668, 3924, 5301, 6548-50, 7814, 9226
- fishery marketing development series, 13820, 16714
- fishery motion pictures, 7814
- fishery problems on high seas in western areas of middle Atlantic Ocean, agreement with Union of Soviet Socialist Republics, 6294
- fishery products—
 - nonirradiated and irradiated, growth and toxin production of *Clostridium* types B, nonproteolytic B and F, 7709-10
 - processed, 1967, annual summary, 15183
 - protection by sanitary standards and inspections, hearings, 409
 - shipboard irradiator studies, final report, 5174
- fishery publication index, 13818
- fishes of Moosehorn National Wildlife Refuge, list, 6253
- fishing grounds, computers used to describe, USSR study, 17134
- fishing in national park system, general information, 10202
- fishing industry, vessels, exempt from certain laws, hearings, 1706
- floating fishing pier, 6321
- Florida landings, 318, 2895
- food fish, situation and outlook (periodical), 2898
- freezing in home, 39
- freshwater fish, irradiation preservation, annual report, 5180
- frozen fish, monthly report, preliminary, 2925
- frozen fishery products, 2926
- annual summary, 9220
- frozen fishery trade, historical statistics, 3910
- Georgia landings, 2939
- Great Lakes, 1967 annual summary, 13815
- hatchery fish, needs, national survey, 7471, 11690
- Hawaii fisheries, annual summary, 3914

Fish and fisheries—Continued

- Hawaiian live-bait fishery for skipjack tuna, operational aspects, 1671
 how to determine quantities for chemical treatments in fish farming, treatment tips, 1428
 industrial fishery products—
 1967 annual summary, 9218
 situation & outlook, 2979
 investigations in fish control (series), 10392-394
 Japanese Atlantic longline fishery, 1965, and status of yellowfin tuna and albacore stocks, 7816
 Japanese, Soviet, and South Korean fisheries off Alaska, history and development, 10664
 King crab fisheries, agreement with—
 Japan, 6293
 Union of Soviet Socialist Republics, 7516
 leadlets, list, 323
 legislation, hearings, 409
 Lewis and Clark Lake, fish sampling and estimation of relative abundance, 7475
 Louisiana landings, 3092
 annual summary, 3911
 Maine landings, 3095, 13814
 management of fish on Federal lands, by States, hearings, 461, 5432
 marine fishes from coastal Georgia, length relations, 5304
 Maryland landings, 3107
 annual summary, 5296
 Massachusetts landings, 3108, 3913
 Michigan, Ohio & Wisconsin landings, 3117
 annual summary, 10663
 Middle Atlantic fisheries, annual summary, 3915
 Middle Atlantic Ocean—
 western areas, agreement with Union of Soviet Socialist Republics, 6295
 western region, agreement with Poland, 14915
 Mississippi landings, 1665, 3125
 New England fisheries, annual summary, 3916
 New Jersey landings, 3187
 annual summary, 7809
 New York landings, 3195
 annual summary, 16711
 North Atlantic, convention on conduct of fishing operations, 7996
 report, 16835
 North Carolina landings, 3205, 15182
 annual summary, 3912
 northeastern Pacific Ocean—
 fisheries off U.S. Coast, agreement with USSR, amend and extend, 7517
 fishing operations, agreement with USSR, 7518
 Oregon landings, 7808
 packaged fishery products—
 1967 annual summary, 9219
 1968 annual summary, 9222
 parasites of freshwater fishes, 1410
 pollution caused fish kills, 15743
 predatory behavior of some shore fishes in Gulf of California, 2479
 progressive fish-culturist, 3339
 publications, price list, 6169
 radiation-pasteurization, Pacific crab and flounder, annual report, 5173
 rare and endangered fish of U.S., list, 7470
 salmon and steelhead trout of Columbia River, recent advances in artificial culture, 6550
 sanitary requirements for fish plants, military standard, 15530
 school formation, hydrodynamic hypothesis, USSR study, 15974
 shrimp landings, 319
 significance of clostridium botulinum type E in application of radiation pasteurization process to Pacific crab meat and flounder, final summary, 7711

Fish and fisheries—Continued

- South Atlantic fisheries, 1967 annual summary, 13816
 South Carolina landings, 3445
 annual summary, 5295
 Rhode Island landings, 3394
 annual summary, 10662
 special scientific reports, fisheries series, 1669-71, 3926-27, 5302-7, 6551, 7815-17, 10668, 13822-823, 15184, 16715
 list, 9226
 sport fish programs, 6257
 sport fishery abstracts, 3454
 sport fishery research, 1968, progress, 14885
 surface mining effects, 13462
 Texas landings, 3195
 toxicity of—
 methylpentynol to selected fishes, 10394
 quinidine to selected fishes, 10392
 United States groundfish industry, effects of imports on, report, 11279
 USSR fish stocks, replenishment by acclimatization, 12942
 USSR fishing industry and marine resources, translations, 3521
 Virginia landings, 3575, 13812
 Western Fish Nutrition Laboratory, general information, 17396
 see also Diseases of fish—Fish meal—
 Shellfish—also names or classes of fish.
 Fish culture, see Fish and fisheries.
 Fish and Wildlife Service:
 Commissioner, nomination of Charles H. Meacham, minority report, 10823
 fishery marketing development series, 13820, 16714
 fishery publication index, 1955-61, by series, authors, and subjects, 13818
 special scientific reports—
 fisheries series, list, 9226
 1940-49, list, 9226
 Fish disease leaflet FDL-(series), 1109-11, 11685-687
 Fish farming, see Fish and fisheries.
 Fish Farming Experimental Station, Stuttgart, Ark., fish disease research, 2480
 Fish ladders, see Fishways.
 Fish meal:
 Peru's fishmeal industry, 6996
 production—
 annual summary, 13811
 monthly reports, 2892
 Fish nets, trade and tariff information, summaries, 10432
 Fish oil:
 production—
 annual summary, 13811
 monthly reports, 2892
 Fish scales, see Scales (fishes).
 Fish sticks:
 and portions—
 annual summary, 7810
 current fishery statistics, 2893
 Fishbein, William, clutter attenuation analysis, 3737
 Fisher, Carl P., soil survey, Oklahoma County, Okla., 6246
 Fisher, Charles S., soil survey, Clay County, Iowa, 11674
 Fisher, Paul R., geologic investigations and engineering properties of craters, Project Pro-Gondola I, Fort Peck Reservoir, Mont., 11960
 Fisheries, see Fish and fisheries.
 Fishermen:
 fishermen's atlas of monthly sea surface temperatures for Gulf of Mexico, 3918
 tips for safety at sea, 301
 Fishermen's and fish shore workers' unions, list, 324
 Fishery marketing development series, 13820, 16714
 Fishery-Oceanographic Center, La Jolla, Calif., report, 321
 Fishery products, see Fish and fisheries.

- Fishery Services Division, annual report, 17395
- Fishes, *see* Fish and fisheries.
- Fishing, *see* Fish and fisheries.
- Fishing gear, commercial, selected items, United States tariffs on, 5301
- see also* Electric fishing devices—Trotlines.
- Fishing vessels:
- construction assistance, increase authorization—
 - hearings, 12237
 - report, 15230, 15251
 - fishing boat builders, partial list, 6518
 - fishing industry, except from certain laws, hearings, 1706
 - tips for fishermen, safety suggestions, 301
 - U.S. fishing fleet improvement act, extend—
 - hearings, 12237
 - reports, 15230, 15251
- Fishlake National Forest, general information, 8276
- Fishman, Leslie, reemployment experiences of defense workers, statistical analysis of Boeing, Martin, and Republic layoffs, 3733
- Fishmeal, *see* Fish meal.
- Fishways, fish ladders for John Day Dam, Columbia River, Oreg. and Wash., 5569
- Fisk, Allen L., Missouri Basin Inter-Agency Committee, minutes of meetings, 991, 5964, 11394, 16112
- Fission, spontaneous, absolute measurement, 3801
- Fission products:
- chemical reactions between uranium dioxide, most abundant fission products, water and sodium, study, 1597
 - fission-product gas pressure in uranium dioxide ceramic fuel elements, estimation, 2223
 - fuel element leakage at NASA Plum Brook Reactor, causes, measurements, and elimination, 14622
- Fittings (auxiliary parts):
- conduit, Federal item identification guide, 531
 - Federal item identification guides for supply cataloging, supplements, 2844
 - fitting out procedures—
 - new construction ships, military standards, 9526
 - ship conversions and modernizations, military standard, 9527
 - see also* Pipe and pipe fittings.
- Fitzgerald apparatus:
- mathematical analysis, 7286
 - resonant mode analysis, 7277
- Fitzpatrick, Robert, performance of nuclear reactor operators, 5161
- Fitzsimons General Hospital, Medical Research and Nutrition Laboratory, reports, 5123
- Fivemile Creek:
- Birmingham, Ala., flood plain information, 12465
 - floods, how to avoid damage, 12499
 - fixtures (lighting), *see* Lighting fixtures.
- Flack, Ronald D., foreign trade regulations of Thailand, 7802
- Flags:
- American flag, 6-cent postage stamp, coil form (poster), 8771
 - Coast Guard Auxiliary uniform, awards, and flag code manual, 9197
 - our flag, how to respect and display, 16522
- Flakeboard, *see* Pulpboard.
- Flame cutting, *see* Metal cutting.
- Flame straightening and its effect on base metal properties, 14854
- Flames:
- low-pressure, candidate re-entry blackout suppressants in vaporization and decomposition kinetics, 14567
 - pulverized-coal flames, flame propagation in absence of recirculation, 5960
 - Flames—Continued
 - thickened hydrocarbon flame fuels, consistency determined by mobilometer test, military standard, 4137
- Flaming Gorge National Recreation area:
- general information, 14262
 - recreational map and general information, 8277
- Flaming Gorge Reservoir, recreational use patterns, 10398
- Flammability, *see* Inflammable materials.
- Flammable fabrics, *see* Textiles.
- Flaps (aircraft):
- external-flow jet-augmented flaps on jet transport model, static and dynamic stability derivatives, 14646
 - external-flow jet flap, wind-tunnel investigation of large jet transport equipped with, 2238
 - flapping and flap-lag instability, 7670
 - flapwise bending moments on helicopter rotor blades, tables, procedures for estimating, 17204
 - flight test results of trailing edge flap designed for direct-lift control, 17201
 - jet-augmented, auxiliary-flap, direct-lift-control system, flight-determined aerodynamic properties, 10109, 13070
 - large semispan tilting wing with 0.4-diameter chord, single-slotted flap, etc—
 - aerodynamic data, 4741
 - pressure distribution, 17231
 - 0.3-scale jet-transport model having jet-augmented boundary layer control flap with direct lift control capability, investigation, 11445
 - STOL aircraft configuration equipped with external-flow jet flap, wind-tunnel investigation, 14617
 - trailing-edge flap of 75° swept delta wing at Mach 6 and angles of attack to 90° pressure and heat transfer, 16171
- Flare angles measured with ball gage, 7248
- Flares, *see* Solar flares.
- Flash distillation, 250-MGD multistage flash distillation plant with 2-level brine flow, design and cost estimates, etc., 15853
- Flashblindness, *see* Blindness.
- Flashbulb spotting round for testing proximity fuzes, 14763
- Flathead Indians:
- judgment funds, disposition—
 - law, 16741
 - reports, 14003, 15256
- Flathead Reservation, timber, potential for intensive management, 1998
- Flatley, Thomas W., attitude stability of class of partially flexible spinning satellites, 14606
- Flavoring extracts, synthetic flavor, production and sales, 4989
- Flavors, volatile fruit-flavor concentrates, production code of Federal regulations, 17103
- Flax, Lawrence, random phase approximation for anisotropic Heisenberg ferromagnet, 13091
- Flaxseed, production and use, past trends and future prospects, 15622
- FLC, *see* Federal Library Committee.
- Fleet Marine Force manual FMFM series, 2128, 7194, 8567, 10038, 14484, 16041, 17162-163
- Fleming, David P.:
- experiments on power loss in herringbone-grooved, gas-lubricated journal bearings, 10139
 - stability analysis for unloaded externally pressurized gas-lubricated bearings with journal rotation, 1140
- Fleming, Walter E., attractants for Japanese beetle, 5067
- Fletcher, Marta G., Army Reserve magazine, 2606

- Fletcher, Arthur A.:
address, Sept. 20, 1969, 15996
nomination, hearing, 8085
- Fletcher, Bobby P., spillway for Rend Lake
Reservoir Big Muddy River, Ill., hydraulic
model investigation, 11017
- Fletcher, John G.:
further physiologic research on human
tumbling, 6417
physiologic mechanisms producing disori-
entation, 11901
- Flexibility, bottom-structure, effects on water
landing loads of Apollo spacecraft models,
7280
- Flies:
caddisflies, trichoptera of Lesser Antilles,
description, etc., 1208
Eulimnia (Diptera: Dolichopodidae), Mexi-
can species, monographic study, 17375
hemlock sawfly in southeast Alaska, 4328
horse bots, how to control them, 14995
house flies, aziridinyl chemosterilants for,
2
house fly, how to control it, 7594
narcissus bulb fly damage in home gardens,
prevention methods, 5046
Nearctic sawflies, Selandriinae, adults
(Hymenoptera: Tenthredinidae), 13608
Phoridae of Dominica (diptera), 17374
suppression of wheat stem sawfly with re-
sistant wheat, 8990
wheat stem sawfly, resistance of varieties
of Portuguese wheat, 3619
- Flight:
aerospace safety (periodical), 2559
Apollo 9, code name, Spider, 8605
Army ROTC flight training, general in-
formation, 15036
borderline medical problems and fitness for
flying, 86
calculated and flight-measured handling-
qualities factors of 3 subsonic jet trans-
ports, 1068
computer mechanization of six-degree of
freedom flight equations, 10084
direct side-force maneuvering system on
deflected jet VTOL aircraft, investiga-
tion, 8638
dynamics of general parachute-payload
system, mathematical model for calcu-
lating, 2227
dynamics of turbojet aircraft, 16209
fatigue of notched Ti-8Al-1Mo-1V titanium
alloy at room temperature and 550° F
(560°K) with flight-by-flight loading
representative of supersonic transport,
11486
flight and ground simulation, human trans-
fer characteristics for roll tracking task,
4734
flight anomalies, investigation of SA 501
S-1VB auxiliary propulsion system,
10129
flight-determined aerodynamic properties
of jet-augmented, auxiliary-flap, direct-
lift-control system, 10109, 13070
flight gas turbine engines, salt deposits in
compressors, survey, 5994
flight measurement of optical radiation
from shock-heated air by using a Trail-
blazer II vehicle, 2242
flight of rockets and optimum design, in-
vestigation, 4753
flight standards evaluation system, 1855
flight-test records, technique for identifi-
fying pilot describing functions, 10108
flight test results of trailing edge flap de-
signed for direct-lift control, 17201
flying quality factors limiting helicopter
maneuverability as identified
by flight investigation, 2240
helicopter rotor in forward flight, method
for analyzing aeroelastic stability, 41568
hover and forward flight, theory for pre-
dicting rotational and vortex noise of
lifting rotors, 10079
- Flight—Continued
information manual, international, amend-
ments, 2999
information publications, dates of latest
editions, 2749
inspection manual, 5600
charge, 6940
instructors, certification—
Federal aviation regulations, 9741,
15684
handbook, 11045
international information manual, 7638
investigation of fluidic autopilot system,
13099
investigation of lightweight helicopter to
study feasibility of fixed-collective-pitch
autorotations, 11476
low subsonic of supersonic transport model
with variable-sweep wing, investigation,
1053
MAC flyer (periodical), 3093
Mach 4.63 flight on X-15 horizontal sta-
bilizer, evaluation of infrared heating
simulation, 16165
measurements of canard loads, canard buff-
eting, and ejection and wing-tip hinge
moments on XB 70 aircraft including
comparisons with predictions, 13132
Nimbus II, launch through orbit 5275,
evaluation and engineering report, 4702
of flight and bold men, 16569
pilot performance, transfer of training and
degree of simulation, non-jet experienced
pilots versus simulation fidelity, 1255
profile and mission of certificated private
pilot, study to determine, 13646
rules, Federal aviation regulations, 1853,
4239, 6931-32, 14186
services, handbook, 6124
changes, 6425, 9013, 11919
simulated orbital, endocrine-metabolic re-
sponse to sequential decompression dur-
ing, 97
simultaneous usage of attitude control for
VTOL maneuvering determined by in-
flight simulation, 13119
spacecraft, electric propulsion mission
analysis, terminology & nomenclature,
17215
test, flexible-wing manned test vehicle
XV-8A, 1583
tests of direct lift control system during
approach and landing, 1080
tests under IFR with STOL transport air-
craft, 1143
three parachute configurations from su-
personic flight tests in low-density en-
vironment, inflation and performance,
11187
two-bara escape maneuvers with inter-
mediate coasting ellipse, 4737
see also Aircraft—Aerodynamics—Helic-
opters—Instrument flying.
- Flight clothing, see Pressure suits.
- Flight crews:
aircraft attitudes and job satisfaction,
trends, 2 year study, 13630
aircrew—
attitudes and job-satisfaction trends,
wives' report, 100
station geometry for military aircraft,
military standard, 14107
survival equipment on 1 & C, Navy
training course, 4826
body armor for aircrewman, 7664
members other than pilots, certification,
Federal aviation regulations, 4236,
16976 977
syncope among aircrew, evaluated at
USAF School of Aerospace Medicine,
3692
- Flight engineers, written test guide, 625
- Flight navigators, see Aviators.
- Flight officers, naval flight officer student
prediction system, expansion, 14499
- Flight simulation, see Simulation.

Flight simulators:
influence of angle of glide slope on accuracy of performing instrument approaches, 1071
synthetic flight training systems, adaptive techniques, 2348
Flight surgeons, *see* Surgeons.
Flight to grandmother's, 9743
Flight training, *see* Flight.
Fliginger, C. John, supplying U.S. markets with fresh winter produce, 6856
Flint, Oliver S., Jr., trichoptera (caddisflies) of Lesser Antilles, 1208
Flint, Mich., home and school program, elementary program in compensatory education, 6874
Flip flops, memory element flip-flop input equations, 1570
Float coal, *see* Coal dust.
Flood, Dennis J.:
magnetothermal oscillations in pressure-annealed, pyrolytic graphite, 17236
molecular vibration spectra from field emission energy distributions, 16174
Flood insurance, *see* National flood insurance.
FLOOD project, *see* Project FLOOD (fleet observation of oceanographic data).
Flood season flow, Columbia River near The Dalles, 3470
Floods:
artificial, effects on seedling survival and growth of six northwestern tree species, 8294
California—
central and southern, 15799
damage prevention, hearings, 7970
floods from small drainage areas, 8345
1968-69, reconstruction of damaged areas, hearings, 7971
catastrophic late Pleistocene, Bonneville flood in Snake River Plain, Idaho, 750
Cattaraugus Creek, Arcade, Wyoming County, N.Y., information, 12528
Chagrin River in Lake and Cuyahoga Counties, Ohio, flood damages need not increase, 12529
Charlotte, N.C., flood inundation and effects of urbanization, 4370
Cheoah River and tributary creeks in vicinity of Robbinsville, N.C., 16503
Columbia River, flood season flow near The Dalles, 3470
control, river and harbors—
and river basin monetary authorizations, 1968, hearings, 415
projects in Hawaii, on-site inspection, report, 4097
Dallas, Tex., northern part, Apr. 28, 1966, 15818
damage prevention, indexed bibliography, 16497
desert flooding in White Mountains of California and Nevada, sequential study, 3760
extent and frequency in Boden Brook basin, Somerset and Mercer Counties, N.J., 15797
flood control payments by U.S., adjustments, agreement with Canada, 15355
flood hazards—
Agua Fria River drainage area, Maricopa County, Ariz., 4199
Laguna Canyon, Orange County, Calif., 12448
Mojave River
Barstow, Calif., 12522
Victorville, San Bernardino County, Calif., 12249
Santa Clara River, Saticoy to Pacific Ocean, Ventura, Calif., 12447
Sweetwater River, San Diego County, Calif., 12543
Walla Walla, Wash., 12519

Floods—Continued

flood plain information—

Agua Fria River, Maricopa County, Ariz., 4200
Allegheny River, Little Valley and Great Valley Creeks, Salimanca, N.Y., 9662
Arkansas River and tributaries, Russellville and Dardanelle, Ark., 9663
Arkansas River, North Little Rock, Ark., 9664
Arroyo de los Chamisos and Arroyo Honda, Santa Fe, N. Mex., 4201
Big Walnut Creek, Columbus, Ohio, 12450
Black Hawk Creek, Black Hawk County, Iowa, 9665
Black River, Town and Mansker Creeks, Pochontas, Ark., 4202
Caguaitas River, Caguas, Puerto Rico, 12451
Camp Creek, North Fork Camp Creek, metropolitan Atlanta, Ga., 9666
Canandaigua Outlet in Ontario and Wayne Counties, N.Y., 9667
Cany Creek, Jackson, Miss., vicinity, 9697
Cattaraugus Creek, Arcade, Wyoming County, N.Y., 9668
Cedar River, Renton, Wash., 10996
Chagrin River Lake and Cuyahoga Counties, Ohio, 9669
Chehalis and Skookumchuck Rivers, Centralia-Chehalis, Wash., 12452
Christina Rivers Muddy and Belltown Runs, New Castle County, Del. 9670
Clearwater River, Orofino and Riverside, Idaho, 9683
Columbia River and tributaries, Cowlitz County, Wash., 12454
Concord and Shawshen Rivers, Bedford, Mass., 9671
Cottonwood Creek, Grand Prairie and Arlington, Tex., 12455
Cumberland River, Obey River, Celina, Tenn., 12456
Cuyahoga River, Big Creek and Tinkers Creek, Cuyahoga County, Ohio, 9672
Dickinson, N. Dak., drainage ditch, 9673
Dickinson Bayou, Dickinson, Tex., 4203
Dry Creek, Cheyenne, Wyo., 10997
Fivemile Creek, Birmingham, Ala., 12465
Forked Deer Rivers and Lewis Creek, Dyersburg, Tenn., 12457
Fountain Creek, Pueblo, Colo., 9674
Garden Creek, Casper, Wyo., 12458
Goodnight Arroyo, Dry Creek & Wild Horse-Dry Creek, Pueblo, Colo., 9675, 9708
Guadalupe River, Spring Creek and Lone Tree Creek, Victoria, Tex., 12459
Halls Mill Creek, Mobile, Ala., 9681
Hampton, Va., 12453
Harpeh River, Franklin, Tenn., 12460
Hutton Branch & Cooks Branch, Dallas County, Tex., 12461
John Day and Canyon City, Oreg., Canyon Creek, 15655
Johnson Creek, Arlington and Grand Prairie, Tex., 12462
Laguna Canyon, Orange County, Calif., 9676
Left-Hand Creek, Boulder County, Colo., 12463
Little Calumet River & tributaries, Ill. and Ind., 15658
Little Papillion Creek and South Branch, Omaha metropolitan region, Nebr., 9677
Mason Creek, Salem, Va., 12464
Meramec River, Brush Creek, and Fox Creek, Pacific, Mo., 9678
Mill Creek, Fort Smith, Ark., 4204
Mill River, Hamden, Conn., 9679
Mississippi and Yazoo Rivers, Vicksburg, Miss., 9680, 12466

Floods—Continued

flood plan information—continued

Mojave River, Victorville, San Bernar-
dino County, Calif., 12467
Mud River, Milton, W. Va., 12468
Neuse and Trent Rivers and Jack Smith
Creek, New Bern, N.C., 12469
North Fork Obion River, Hoosier Creek
and Grove Creek, Union City, Tenn.,
12470
Ohio River and tributaries, 9682
Ouachita River, Arkadelphia, Ark., 9684
Perkiomen Creek from Green Lane Res-
ervoir to Schuylkill River, extent and
frequency of inundation, 15798
Peters Creek and Lick Run, Roanoke,
Va., 12471
Pigeon Creek, Bentleyville, Fallowfield
township and Somerset township, Pa.,
12472
Post Oak Creek and tributaries, Sher-
man, Texas, 12473
Proctor Creek, metropolitan Atlanta,
Ga., 9685
Pullman, Wash., South Fork Palouse
River and Missouri Flat Creek, 10098
Purple Creek, Jackson, Miss., vicinity,
9698
Roanoke River, Roanoke and Salem, Va.,
12474
Rock River, Beloit, Wis., 12475
Rocky River in cities of Rocky River
and Lakewood, Cuyahoga County,
Ohio, 9686
Sabine River and Adams Bayou, Orange,
Tex., 12476
St. Johns River, Jacksonville, Fla., 9687
Santa Clara River, Saticoy to Pacific
Ocean, Ventura County, Calif., 9688
Santa Fe River, Santa Fe, N. Mex., 9689
Santa Ynez River, including Alamo
Pintado Creek from Cachuma Dam to
Emilton, Santa Barbara County,
Calif., 9690
Seajaquada Creek in Cheektowaga and
Lancaster, Erie County, N.Y., 12477
South Fork Eel River, Phillipsville to
Garberville, 14150
South Fork Eel River, Weott to Myers
Flat, Humboldt County, Calif., 9691
South Fork, Forked Deer River and
Sugar Creek, Henderson, Tenn., 4205
South Fork Zumbro River and tribu-
taries, Rochester, Minn., 9692
South Mesquite Creek, Mesquite, Tex.,
12478
Stillwater Creek and tributaries, Still-
water, Okla., 9693
Sweetwater River, San Diego County
Calif., 9694
Tar River and Stony Creek, Rocky
Mount, N.C., 9695
Tenmile Creek, Dallas County, Tex.,
12479
tidal lands of Cape May County, N.J.,
9701
Upham Brook, Henrico County, Va.,
12480
technical appendix, 12481
Upper Flint River, Mud and Jester
Creeks, metropolitan Atlanta, Ga.,
9696
Walla Walla River tributaries, Walla
Walla, Wash., 12482
Walnut and Whitewater Rivers, Kans.,
9699
Westfield and Little Rivers, Westfield,
Mass., 15656
Willamette River and tributaries, Mar-
ion and Polk Counties, Oreg., 12483
Wilson Creek and tributaries, Spring-
field, Mo., 9700
Wolf River, Lake Poygan to Shawano,
Wis., 15657
floods and flood warnings, general infor-
mation, safety rules, etc., 9728

Floods—Continued

floods of 1965 in United States (series),
15816
floods of 1966 in United States (series),
15818
homes and farms, first aid, 6370
how to avoid damage—
Bedford, Mass., 12484
Bentleyville, Fallowfield township and
Somerset township, Pa., 12485
Black Hawk Creek, Black Hawk County,
Iowa, 12446
Caguas, P.R., 12486
Spanish edition, 12545
Camp Creek and North Fork Camp
Creek, Atlanta, Ga., 12525
Cany Creek, Jackson, Miss., 12527
Canyon City and John Day, Oreg., 15659
Cape May County, N.J.—
Avalon, Sea Isle City, Goshen, 12487
Ocean City, 12488
Stone Harbor, Villas, 12489
Strathmere, Dennisville, 12490
Wildwood, Cape May, 12491
Celina, Tenn., 12492
Centralia and Chehalis, Wash., 12493
Columbus, Ohio, 12524
Coochs Bridge-Christiana, Del., 12494
Cottonwood Creek, Grand Prairie and
Arlington, Tex., 12530
Cowlitz County, Wash., 12495
Dickinson Bayou, Dickinson, Tex., 4206
Dyersburg, Tenn., 12497
Pivemile Creek, Birmingham, Ala.,
12499
Fountain Creek, Pueblo, Colo., 12507
Glasgow-Fraser's Corner, Del., 12500
Halls Mill Creek, Mobile, Ala., 12531
Hamden, Conn., 9704
Hampton, Va., 12501
Henderson, Tenn., 4208
Hutton Branch and Cooks Branch, Dal-
las County, Tex., 12532
Jacksonville, Fla., 10999
Johnson Creek, Arlington and Grand
Prairie, Tex., 12533
McCracken County, Ky., 9705
Marion and Polk Counties, Oreg., 12502
Mason Creek, Salem, Va., 12534
Mill Creek, Fort Smith, Ark., 4207
Milton, W. Va., 12503
New Bern, N.C., 12504
North Little Rock, Ark., 9706
Orange, Tex., 12505
Pacific, Mo., 12506
Pocahontas, Ark., 4209
Proctor Creek, Atlanta, Ga., 12535
Pullman, Wash., 11000
Purple Creek, Jackson, Miss., 12536
Renton, Wash., 11001
Roanoke and Salem, Va., 12509
Rochester, Minn., 12510
Rock River, Beloit, Wis., 12549
Rocky Mount, N.C., 12511
Russellville and Dardanelle, Ark., 12513
Salamanca, N.Y., 12523
Santa Fe, N. Mex., Arroyo de las
Chaminoes and Arroyo Hondo, 4210
Santa Fe River, Santa Fe, N. Mex., 12514
Seajaquada Creek in Cheektowaga and
Lancaster, Erie County, N.Y., 12537
Sherman, Tex., Post Oak Creek and
tributaries, 12515
South Mesquite Creek, Mesquite, Tex.,
12539
Springfield, Mo., 12516
Stillwater Creek and tributaries, Still-
water, Okla., 12517
Tenmile Creek, Dallas County, Tex.,
12540
Union City, Tenn., 12518
Upper Flint River, Mud and Jester
Creeks, Atlanta, Ga., 12541
Victoria, Tex., 12520

- Floods—Continued
how to avoid damage—continued
Walnut River—
Arkansas City, Kans., 9702
Augusta, Kans., 9703
El Dorado, Kans., 12498
Winfield, Kans., 9709
Westfield, Mass., 15660
Williamsburg, Ky., 12521
Wolf River, Lake Poygan to Shawano, Wls., 15654
Hhols—
floodflows from small drainage areas, preliminary flood-frequency relations, 8344
Sycamore NE quadrangle, 8346
Sycamore SE quadrangle, 8347
Investigation of floods in Hawaii, progress report, 9901, 15800
keep damages low by building high—
Canandagua Outlet, Ontario and Wayne Counties, N.Y., 12526
Cuyahoga River, Big Creek and Tinkers Creek, Cuyahoga County, Ohio, 12496
national flood insurance act of 1968, amend and extend, reports, 12297, 15371, 16792
Operations Foresight, ESSA's performance before and during heavy floods in Midwest, Mar.-Apr. 1969, report, 12564
Orofino and Riverside, Idaho, 9707
profile study, Squaw Creek, Linn County, Iowa, 8343
Pupukea, Oahu, Hawaii, cause, possible solutions, etc., 12508
reducing damages, guidelines, 12544
Rocky River floods, Lakewood and Rocky River, Cuyahoga County, stay dry by building high, 12512
Santa Ynez River, including Alamo Pintado Creek, from Cuchuma Dam to Buellton, Santa Barbara County, Calif., problem, solution, etc., 12542
South Fork Eel River, near Weott and Myers Flat, possible solutions to prevent damage, etc., 12538
South Platte River basin, Colo., 15816
United States summary, 4371
Virginia, magnitude and frequency, 9895
Willamette River at Lambert Bend, Oreg., floodflow characteristics of proposed Greenacres Road crossing, 9937
see also names of rivers, etc.
Floor covering installers, see Floor layers.
Floor coverings, resilient, nontextile, sampling and testing Federal test method standard change, 17004
Floor layers, floor covering installers, employment outlook, 4509
Floors and flooring:
failure of floor tile systems, investigation, 14204
flooring costs, 15771
live floor loads in modern office buildings, survey and evaluation techniques, 2282
raised floor systems, Army technical manual, 9778
Flora, Clarence C., flight investigation of systems developed for reducing pilot workload and improving tracking accuracy during noise-abatement landing approaches, 17202
Flora, Donald F., soil survey, Schoharie County, N.Y., 16438
Flora, see Plants.
Flory, Charles du V., blood pressure relating to physique, blood glucose, and serum cholesterol, 17359
Floriculture:
commercial, and related products, analysis of purchases of goods and services, 10487
statistical supplement, 16546
Florida:
Agricultural Stabilization and Conservation Service—
annual Congressional district summary, 11816
annual report, 11817
Florida—Continued
census of business, 1967, retail trade, area statistics, 12735
central and southern, water resources, engineer report—
departmental edition, 603
document edition, 363
citrus fruit, experimental forced-air pre-cooling, 8971
climatological data, 2662
dealers in trout and pondfishes, list, 10385
drilling on continental margin (series), 12779
electric rate book, 9784
Federal outlays, report of Federal Government's impact by State and county, 9542, 9592
landings, fish and shellfish, 318, 2895
marketing vegetables, 1968 summary, 510
mineral industry, minerals yearbook chapter, 951
northwest, forest statistics, 11193
nutrition and human needs, hearings, 10917
phosphate operation, waste disposal costs, 7207
postal map, 6160
precipitation data, hourly, 2962
soil survey laboratory data and descriptions, 13448
south, applications of aerial photography and remote sensing to hydrobiological research, 12755
sugarcane variety tests, 1967-68 season, 3620
sugarcane wage requirements, 1516
water resources data, 14362-365
water resources development by Army Corps of Engineers, 11004
Florida-Hatteras Slope, organic extracts from deep core samples, study, 12779
Florissant Fossil Beds National Monument:
establish—
hearing, 12302
law, 15208
reports, 10861, 15238
master plan, 8729
Flotation:
characteristics of some beryllium minerals and associated gangue minerals, 976
muscovite from Alabama graphitic-mica schist ore, 10064
Flounders:
radiation-pasteurization processes, annual report, 5173
significance of Clostridium botulinum, type E, in application of radiation-pasteurization process, 7708, 7711
Flour, wheat-flour economy, regional and sectoral analysis, transportation study, 16548
Flour mills, products, current industrial reports, 2732
Flow:
acoustic velocity meter for measurement of net outflow from Sacramento, San Joaquin delta in Calif. feasibility study of use, 14372
airflow distribution for annular gas turbine combustors, analysis, 14631
aspects of aerodynamics of formation of float coal dust clouds, 10053
attitude angle and air flow, experiments on rotating externally pressurized air journal bearings, 11452
axial-flow pump—
in 1500° F (1089K) liquid sodium performance and cavitation damage, 7296
in liquid sodium, cavitation damage and effect of fluid temperature on performance, 16202
back flow jet plumes in vacuum, 2266
base flow field at high altitude for four-engine clustered nozzle configuration, experimental investigation, 10115
bed forms generated in laboratory under oscillatory flow, analytical and experimental study, 15648

Flow—Continued

- behavior of natural alluvial channels (series), 11247
- behavior of straight open channels with movable beds, 11247
- blunt-body—
 - equilibrium air flow field, modified method of integral relations approach, including comparisons with inverse solutions, 16182
 - stagnation-region flow with nongray radiation heat transfer, singular perturbation solution, 1148
- comparison of concurrent-flow, crossflow, and counterflow grain drying methods, 7595
- direction, measurement by use of small combination sensing probe, 1062
- effects of 3 outlet-annulus area blockage configurations on performance of 20-inch (50.8-cm) axial-flow compressor rotor, 17249
- experimental, properties in wake of 120° cone at Mach number 2.20, 13135
- external-flow—
 - jet-augmented flaps on jet transport model, static and dynamic stability derivatives, 14646
 - jet flap, wind-tunnel investigation of large jet transport model equipped, with, 2238
- field—
 - measurements downstream of two protuberances on flat plate submerged turbulent boundary layer at Mach 2.49 and 4.44, 14608
 - supersonic, estimate, about axisymmetric body with N wave pressure trace, 1141
- flow-field—
 - investigations on X-15 airplane and model up to hypersonic speeds, 1061
 - properties near arrow-wing-body model at Mach numbers 1.60, 2.36, and 2.96, 1060
 - resulting from forward-facing nozzles exhausting near large cylindrical body at freestream Mach numbers of 3.0 and 6.0, exploratory investigation, 7252
- flow in VTOL lift fan inlets without cross-flow, theoretical analysis, 6013
- flow-induced vibration of flat plate suspended in narrow channel, 1013
- flow measurements through high-head turbines and pumps, potential economic benefits from use of radioisotopes, 10347
- flow of mercury in porous media in transverse magnetic field, experiments, 10060
- fluid-cooled axial flow turbine, 7671
- fluid flow, simplified molecular model for studying vibration-dissociation coupling, 17254
- fluid, slush hydrogen fluid characterization and instrumentation, 6051
- gaseous flow system dynamics, measured effects on acoustic-mode combustion instability, 7265
- hypersonic—
 - bodies of revolution having minimum total drag, 16184
 - boundary layer tripping elements in flow-field and drag characteristics, 16192
 - low-density, leading-edge bluntness, and ablation effects on wedge-induced laminar-boundary layer separation at moderate enthalpies, 2226
 - real-helium for pressures to 3600 atmospheres and temperatures to 15,000° K, 1092
- incompressible turbulent swirling flow in pipes, analytical investigation, 1006
- inhomogeneous hot plasma flow, instability, 15065

Flow—Continued

- injection of attached inviscid jet at oblique angle to moving stream, 17246
- injection of inviscid separated jet at oblique angle to moving stream, 16194
- inviscid—
 - analysis of 2 parallel slot jets impinging normally on a surface, 2256
 - radiating shock layers about spheres traveling at hyperbolic speeds in air, 10157
 - rotating coaxial jets, hydrodynamic stability, 8602
- isothermal, compressible across rotating sealing dam—
 - analysis, 14614
 - computer program, 16155
- laminar, dispersion in diverging channels and in concentric annuli, 9975
- low-frequency flow dynamics of 2 nuclear-rocket cold-flow engine systems, analog computer study, 13104
- lubrication in turbulent regime, 3794
- magnetoaerodynamic, around blunt bodies, experimental investigation, 14574
- mass transfer in laminar and turbulent hyperfiltration systems, 7085
- mechanics, from stratified reservoirs in interest of water quality, 14156
- new momentum-integral method for treating magnetohydrodynamic and simple hydrodynamic entrance flows, 10133
- nonlinear flux flow in single crystal niobium, 10126
- nonsteady one dimensional compressible fluid flow through anisotropic porous media, 3745
- one-dimensional nonequilibrium nozzle flow, some numerical difficulties in integrating equations, 8639
- plastic, in locale on notches and cracks in Fe-3Si steel under conditions approaching plane strain, 2447
- precision, measurement techniques for low-thrust auxiliary-propulsion liquid rockets, 4700, 11433
- radiating nonadiabatic, inviscid flow over blunt body, 17230
- rate effect, on dynamic contact angle for wetting liquids, 7285
- real-gas effects in critical flow thru nozzles and thermodynamic properties of nitrogen and helium, 4695, 16149
- reduction, due to oxidation of wire-form porous sheet for transpiration cooled turbine blades, analytical study, 4729
- re-entry flow fields in atmosphere, review of rate constants of selected reactions of interest, 10181
- relation of precipitation to flow from Little Leroux Spring on San Francisco Peaks, Ariz., 9849
- stagnation region flows over blunt bodies, with nongray emission and absorption of radiation, solution by time-asymptotic technique, 4755
- streamflow characteristics in western Dakota tributaries, Missouri River basin, 16113
- studies of flow in alluvial channels (series), 12799
- subsonic, based on integral equation for subsonic flow, development of 3-dimensional pressure-distribution functions for lifting surfaces with trailing edge controls, 17220
- supersonic—
 - interaction and penetration of gaseous jets, 13017
 - method for determining surface pressures on blunt bodies of revolution at small angles of attack in supersonic flow, 2229
 - second-order wave structure, 16144

Flow—Continued

- supersonic—continued
- steady 3-dimensional supersonic flow with application to inclined bodies of revolution, method of characteristics, 17218
- stream of binary gas in laval nozzle, obtaining population inversion of molecules, USSR study, 7128
- three dimensional, over blunt body, USSR study, 2086
- viscous flow near stagnation line of sphere and cylinder, USSR study, 2085
- with turbulent boundary layer, method for determining total drag of pointed body of revolution in, 7253
- theoretical flow field calculations for Project RAM, 11405
- thick plate orifices with approach flow perpendicular and inclined to orifice axis, discharge coefficients, 16199
- turbulent, unified analysis of turbulent jet mixing, 13046
- two-dimensional—
- channel with rectangular cavity, 2202
- flow in open channels, boundary effects of uniform size roughness elements, 4214
- inviscid jet flow from two nozzles at angle to plane surface, 6012
- two-fluid wheel flows with imposed uniform axial magnetic field, stability, 13138
- two-phase hydrogen flow in pump inlet line, investigation, 13079
- unsteady motion of sphere along circular path in viscous fluid, 9032
- velocity profile measurements of free-stream in Langley pilot model expansion tube by photoionization, 2241
- viscous—
- compressible fluid flow around oscillating rigid cylinder, numerical calculation, 17210
- in short cylindrical vortex chamber with finite swirl ratio, 7293
- isothermal compressible, across sealing dam with small tilt angle, computer program, 14621
- wind tunnel tests of thin airfoils oscillating near stall, summary and evaluation, 6459
- Flow of water, *see* Hydraulics.
- Flowers, L. C., graphitic oxide containing reverse osmosis membranes, 9961
- Flowers, production and sales, etc., 7529, 10500
- Floyd, Milton M., trotline for blue crabs, 1668
- Flue-cured tobacco, *see* Tobacco.
- Flue dust, use of fly ash for remote filling of underground cavities and passageways, 982
- Fluid flow, *see* Flow.
- Fluid fuels, *see* Liquid fuels.
- Fluid mechanics, *see* Hydromechanics—Mechanics (science).
- Fluid power systems equipment, shipments and end use, 16639
- Fluidics:
- flightworthy fluidic yaw damper fabrication and functional test, 1587
- fluidic autopilot system, flight investigation, 13099
- Fluids:
- effect of temperature on cavitation performance of high hub-tip ratio axial flow pump in water to 250° F (394K), 11493
- fluid injection, investigation of effect on skin-friction of incompressible turbulent boundary layer, 9057
- fluid reaction surfaces, classification definitions, 13313

Fluids—Continued

- homogeneous isotropic continuous fluids, governing equations for wave propagation, 12588
- NASA contributions to fluid-film lubrication, survey, 10101
- nonlinear decay of disturbance in unbounded viscous fluid, 2247
- non-Newtonian gelled fluids as shock-and vibration-isolation medium, feasibility study, 15055
- sprinkling, spraying and diffusion, classification definitions, 1292
- temperature and cavitation damage, effect on performance of axial-flow pump in liquid sodium, 16202
- two-fluid wheel flows with imposed uniform axial magnetic field, stability, 13138
- viscous compressible fluid flow around oscillating rigid cylinder, numerical calculation, 17210
- Fluke, G. A.:
- new design concept for reverse osmosis membrane cells, 15854
- process and configuration development for tubular reverse osmosis units, 11280
- Flukes:
- Trematoda—
- and Cestoda, index-catalogue, 10462
- and trematode diseases, index catalogues, 13, 3626, 7572-73
- see also* Liver flukes.
- Fluno, John A., controlling mosquitoes in your home and on your premises, 3639
- Fluorescence, in fused silica during TRIGA pulse irradiation, 1015
- Fluorescence lamps, *see* Electric lamps.
- Fluoridation, for you and yours, 4374
- Fluorides:
- activity and concentration in seawater using lanthanum fluoride electrode, measurement, 14733
- fluoride volatility, 1968, Rocky Flats Fluoride Volatility Conference, proceedings, 7677
- lanthanum fluoride electrode response in water and in 1M sodium chloride, 13303
- natural fluoride content of community water supplies, 10194
- phase diagram for KF-YF₃ system, 7216
- rare earth, exploratory study of their use as solid lubricants at temperatures to 1800° F (1000° C), 11490
- solubility of aluminum in presence of fluoride, 8383
- thermionic converter with fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
- water fluoride, report of study, 10295
- see also* Graphite fluoride.
- Fluorine:
- extraction of aluminum and fluorine from leached potlining residues, 10065
- methane-fluorine-oxygen and butene-1-fluorine-oxygen rocket performance, nonequilibrium calculations, 4721
- micas, 7203
- Fluorocarbons:
- fatigue life of 120-mm bore ball bearings at 600° F with, 1079
- fluorocarbon compounds, medicinal and toxic, USSR study, 4449
- in epoxy plastics, 14747
- non-aqueous solutions of fluorocarbon-containing surfactants, wetting of low-energy surfaces, 10255
- wettability of fluorocarbon and chlorocarbon trialkoxysilane films, adsorbed on glass and metal surface, 7388
- Fluorspar:
- mineral industry survey, quarterly, 2897
- minerals yearbook chapter, 17171

- Flutter (aircraft):
 deflected-elevator flutter encountered on
 t-tail airplane, wind tunnel study, 4746
 effects of structural damping on flutter of
 stressed panels, 4720
 helicopter rotor blades, classical flutter,
 7669
 hypersonic flutter analysis using measured
 static aerodynamic derivatives and com-
 parison with experiment, 10144
 on phenomenon of thermoelastic instabil-
 ity (thermal flutter) of booms with open
 cross section, 11456
 Saturn V, S-1VB panel flutter qualification
 test, final report, 17222
 stall flutter, prediction of rotor instability
 at high forward speeds, 9053
- Flux:
 ion flux and target plasma interaction
 during charge exchange, 5144
 laminar flux of dense plasma, hydrody-
 namic theory of stability, 16615
 low-cost fluxes, use in refining zinc-base
 die-cast scrap, 16106
 nonlinear flux flow in single crystal ni-
 obium, 10126
 shock precursor heating on radiative flux
 to blunt bodies, effect, 4680
- Flux (neutron), see Neutrons.
 Fly ash, see Flue dust.
 Flying, see Flight—Instrument flying.
 Flying clubs:
 air travel clubs using large airplanes, cer-
 tification and operations, Federal avia-
 tion regulations, 9742, 15686
 forming and operating, general informa-
 tion, 9744
 Flying schools, see Aeronautics.
 FMC, see Federal Maritime Commission.
 FMSS series, 6503
- Foam:
 fractionation of aqueous solutions, 2008
 low-density, for insulating liquid-hydrogen
 tanks, 7284
 polyurethane foams, technology, proper-
 ties and applications, 12376
 Foamed plastics, see Plastics.
- Foibles, E. W.:
 hardwood veneer timber volume in upper
 Michigan, 11173
 system for classifying wood-using indus-
 tries and recording statistics for auto-
 matic data processing, 11183
- Focusing, N-wave focusing, laboratory inves-
 tigation, 13100
- Fog:
 artificial modification, USSR study, 5841
 formation and reduction of ice fog, 11929
 microspherules in snow and ice-fog crys-
 tals, 11930
 modification studies on Greenland ice cap,
 11931
 warm fog, cold fog 3, cold wand, cold horn,
 and cold fan projects, Air Weather
 Service, 1968 weather modification pro-
 gram, final report, 3688
 warm, properties and modification con-
 cepts, NASA research, symposium pro-
 ceedings, 16148
- Fog signals:
 Naval Oceanographic Office, lists—
 Baltic Sea with Kattegat, etc., 2326,
 8753, 17303
 British Isles, etc., 14729
 Europe and Africa, west coast, etc.,
 2335, 8751, 16303
 Greenland, North and South America,
 east coast, etc., 2334, 8750, 16301
 North and South America, west coasts,
 etc., change, 6127, 13264, 17301
 Norway, Iceland and Arctic Ocean,
 1246, 8752, 17302
 Pacific Ocean, western, etc., 1245, 7373,
 16302
- Fogarty, L. E., computer mechanization of
 six-degree of freedom flight equations,
 10084
- Fogel, Walter, job gains of Mexican-Ameri-
 can men, 898
- Foils, see Aluminum foil—Metal foils.
- Fokker ultrasonic adhesive bond test, 10954
- Foliage, see Leaves.
- Folk literature, Indian and Eskimo folk-
 tales, bibliography, 8112
 Folk tales, see Folk literature.
- Folkman, William S., follow-up evaluation of
 fire hazard inspection procedures, Butte
 County, Calif., 1916
- Follow throughs nutrition program, 15632
- Foltz, Bruce W., gross-basal area growth of
 northern white cedar is independent of
 stand density over wide range, 4307
- Fomes annosus:
 Annosus root rot, Allegheny National
 Forest, detection survey, 7001
 use of soil fumigants to control spread,
 15770
- Foo Ying Yee, see Yee Foo Ying.
- Food:
 aid and agricultural development, 9645
 buying, how to use USDA grades, 6394
 Camille, food help, picture story, 13603
 code of Federal regulations, 8225, 9803,
 11119, 12631
 commercial import detentions, monthly re-
 port, 2678
 consumer information, publications, price
 list, 4868
 costs, retail, farm, marketing, 5057
 dietary levels of households in United
 States, 13592
 distribution facilities—
 Cincinnati, Ohio, study, 43
 Dayton, Ohio, 3648
 Salt Lake City, Utah, 5050
 domestic food assistance act of 1969, hear-
 ings, 9444
 donated foods, help fight hunger in Amer-
 ica, handbook for volunteers, 9497
 eat well for you and your baby who is on
 the way, 16671
 emergency food and medical services, OEO,
 6852
 guidelines, 9637
 exports directory, 667
 fair packaging and labeling act, food pack-
 aging and labeling regulations, synopsis,
 5658
 family buying, guide, 16543
 family stockpile for survival, 16539
 Federal food service program, hearings,
 5373
 fish, situation and outlook (periodical),
 2898
 food—
 and farm products, USDA grade names,
 507
 and fiber policy for future, 8784
 and your weight, 13590
 assistance reform, national nutrition
 survey, hearings, 10917
 chain selling practices in District of
 Columbia and San Francisco, eco-
 nomic report, 15739
 costs, farm prices, compilation of infor-
 mation relating to agriculture, 9328
 Food, drug, and cosmetic act—
 enforcement regulations, 1902
 laws, compilation, 5458
 text, 6994
 food for peace, annual report on Public
 law 480, 12136
 food gap, extent of poverty and malnu-
 trition in United States, 15477
 foods for the preschool child, 5238
 for family with young children, 13587
 for your baby's first year, 5237
 frozen foil pack meal components, micro-
 biologic evaluation, 16575
 good foods coloring book, 8988
 Spanish edition, 15001
 guide for older folks, 38, 10481

INDEX 1969

Food—Continued

- household consumption survey, 1965-66, reports, 13592
- human needs—
 - Florida, hearings, 10917
 - national nutrition survey, hearings, 8087, 10917, 12316, 14058, 15478, 16895
 - Nixon administration program, recommendations, hearings, 12316
 - problems and prospects, hearings, 5463
 - South Carolina, hearings, 8087
- hunger and malnutrition (address), 26
- hunger and malnutrition problem, message from the President, 7862
- industry, unit-load explosion, 15768
- intake and nutritive value of diets of men, women, and children in United States, spring 1965, preliminary report, 6358
- irradiation, AEC contractors' meeting, 3797
- Japan's food demand and 1985 grain import prospects, 10973
- Jimmy has more fun, donated foods program, 12326
- keeping food safe to eat, guide for homemakers, 8968
- lack of food, study, authorization, reports, 1727, 5420
- makes the difference, list of references, 16532
- management in national emergency, guide for food processors and wholesalers, 11876
- marketing system (statement), 3670
- medical food service computerization study, 10531
- national food situation, 3161
- new products from industry, now authorized for use by Armed Forces, 14095
- nutritious meals for needy children, provide temporary emergency assistance—
 - hearings, 16877
 - report, 12187
- panthothenic acid, vitamin B6 and vitamin B12, 13591
- pesticides, residues in food—
 - analytical manual, 666, 1901, 6995, 12667, 17009
 - control, industry guidelines, 4289
- plentiful food, PF series, 3257
- poverty, malnutrition, and Federal food assistance programs, statistical summary, 16896
- preparation and serving equipment, Federal item identification guides for supply cataloging, supplements, 2849
- preservation, meat and poultry, wholesome for you, 16341
- prices and living costs, background material, 14471
- production and processing in USSR, 4448
- publications, price list, 2403
- Puerto Rico industry, minimum wage rates, data pertinent to review, 13527
- retail prices—
 - by cities, 2806
 - 1964-68, indexes and average prices, 12974
- retailers, encourage your low-income customers to take part in food stamp program, 51
- retailing, structure and competitive behavior, economic report, 5652
- standards, Codex Alimentarius Commission, U.S. delegates, etc., 12325
- standards for Nation's food supply as CPEHS sees it (address), 16337
- technical publications, July-Dec. 1968, FDA, 14247
- USDA standards, list, 6373
- worktime required to buy food, 5915
- your family food donation program, 17010

Food—Continued

- see also Canned foods—Diet—Food poisoning—Menus for space flight—Rations—School lunches—also names of foods.
- Food and Agriculture Organization of United Nations:
 - organization, work and U.S. participation, 8271
 - United States report to FAO on progress, 17011
- Food and Drug Administration:
 - bacteriological analytical manual, 8267
 - clinical experience abstracts, 2824
 - FDA commission, delegation of authority to State and local officials, 11149
 - FDA papers (periodical), 2825
 - FDA publications, 4289, 8268-69
 - FDA's drug efficacy review, Washington briefing, 5662
 - poster series, 11150-152
 - posters, sanitation guidelines for—
 - finished products, 11153
 - food processing, 11152
 - plant employees, 11150
 - raw materials, 11151
 - selected technical publications, 14247
- Food and Fiber, National Advisory Commission on, see National Advisory Commission on Food and Fiber.
- Food, drug, and cosmetic act, see Cosmetics—Drugs—Food.
- Food for fish, fertilizer effects on food chain organisms and fish production in Norris Reservoir, Tenn., 1473
- Food for livestock:
 - farms supply technology, 2-year post high school curriculum, 5543
 - feed market news, weekly summary and statistics, 2886
 - feed situation, 2887
 - finishing beef cattle, 16338
 - livestock-feed relationships, 1909-63, supplement, 2671
 - urea consumed by cattle on feed, 1965-66 feeding year, 4154
 - see also Silage.
- Food handling:
 - sanitation guidelines for—
 - finished products (poster), 11153
 - food processing (poster), 11152
 - plant employees (poster), 11150
 - raw materials (poster), 11151
- Food poisoning:
 - foodborne outbreaks—
 - National Communicable Disease Center—
 - annual summary, 14798
 - Jan.-June 1969 report, 17338
 - natural food poisons, 5660
- Food processing:
 - and production in USSR, 4448
 - industry in Taiwan, 1656
 - management in national emergency, guide for food processors and wholesalers, 11876
 - sanitation guidelines (poster), 11152
- Food sanitation, see Food handling.
- Food service workers:
 - job grading standard, civil service, 284
 - sanitation guidelines for plant employees (poster), 11150
- Food stamps:
 - act of 1964—
 - amend—
 - hearings, 16806
 - report, 12260
 - repeal, hearings, 9444
 - food stamp program—
 - address, 7583
 - appropriation, 1970, authorization, increase, report, 12252
 - extend, hearings, 16806
 - retailers encourage your low-income customers to take part, 51
 - food stamps to end hunger, 6398
 - poverty, malnutrition, and Federal food assistance programs, statistical summary, 16896

Food stamps—Continued
 program and commodity distribution, hearings, 9444
 stamps that make the difference (address), 3669
 welfare reform and food stamps, hearings, 15478
 statutes, compilation, 1502
 you're in good company, millions of Americans use USDA food stamps, 16553
 you can help fight hunger in America, food stamp handbook for volunteers, 9498

Food stores, *see* Stores.

Football, 6-cent football commemorative postage stamp (poster), 14767

Footwear, *see* Boots and shoes.

For all the people, by all the people, report on equal opportunity in State and local government employment, 12636

For guys and gals who are looking for summer jobs, 11598

Forage plants:
 alpine forages in Wyoming, in vitro digestibility, 14288
 deer browse production, rapid sampling and computer-aided analysis, 4312
 forage fed to milk cows, 1968-69 winter feeding season, 11734
 intensive cleaning increases sapling growth and browse production, 9865
 spring-season deer browsing of Douglas-fir Capitol Forest in western Washington, 4315
 sudangrass and sorghum-sudangrass hybrids for forage, description, varieties, etc., 7588

Foraminifera:
 and stratigraphy of upper part of Pierre shale and lower part of Fox Hills sandstone, north-central South Dakota, 14348
 Middle Miocene and stratigraphic relations in Adelaida quadrangle, San Luis Obispo County, Calif., 734

Forbes, Jack D.:
 education of culturally different, multicultural approach, handbook for educators, 16956
 Mexican-Americans, handbook for educators, 14139

Force and energy:
 aerodynamic forces on stationary and oscillating circular cylinder at high Reynolds number, 4756
 calculated interaction energy and dipole moment in collisions of 2 hydrogen molecules, 17234
 calorimetric measurement of superhigh-frequency power, 16612
 concentrated force moving from tip to root, of flexible rotor blade, dynamic response, 16167
 current-induced forces, action on static configuration of tri-moored, subsurface, buoy cable array, 13297
 dissociation energy of gaseous titanium mononitride, 5999
 energy control for microwave amplifier arrays, 1567
 force investigation of supersonic transport model with variable-sweep wing, 1653
 forces and bending moments generated during the NRL dynamic tear test, analysis, 13289
 forces and moments due to air jets exhausting parallel to large flat plates in near vacuum, 8630
 high-frequency energy near lower hybrid frequency, plasma absorption, 15068
 hydro-thermal power, 10-year program for Pacific Northwest, 6483
 ion energy loss in vapor-deposited materials, evaluation of technique for measuring, 16179
 physics of high energies and cosmic rays, problems, 10160

Force and energy—Continued
 pumping and energy recovery systems for reverse osmosis desalination plants, 15855
 use of energy thickness in prediction of throat heat transfer in rocket nozzles, 13131
see also Jets—Power.

Force-penetration characteristics of sand horizontally penetrated by plates, cones, and spherical segments, 4673

Ford, Henry, 12-cent commemorative postage stamp, dedication (address), 7395

Ford, W. D., method of measuring accumulating fatigue damage to concrete, 1821

Ford, William P., Hartree-Fock calculations with Wood-Saxon basis functions, 6014

Ford family and their clothing money, 8981

Ford's Theatre, general information, 14703

Forecasts:
 forecasting—
 and modeling of future, science, technology, etc., USSR study, 7147
 and organizing USSR science, philosophical problems of, 2093
 long range forecasting—
 methodology Air Force symposium, 78
 scientific and technical progress, USSR study, 12938
 scientific progress and sociological predictions in USSR, 12945
 short-term radio propagation forecasts in southeast Asia, 6915
see also Weather forecasts.

Foreclosure of mortgage, *see* Mortgages.

Foreign affairs, *see* International relations.

Foreign Affairs Committee, House:
 activities, 90th Congress, 401
 calendar, 3040
 committee prints, 397-401, 1968-1700, 3988, 5441, 6712-13, 7955, 9344-45, 9347
 hearings, 3990, 7953, 7956, 9345-46, 10780-786, 12217-219, 13928-929, 15316, 16818
 investigations and studies, foreign policy of U.S.—
 authorization, reports, 6649, 12193
 expenses, report, 6679
 reports, 5358, 6658, 6699, 12193, 15250, 15272-273, 16796, 16805
 subcommittee prints, 3989, 10779, 12220

Foreign Affairs Research Documentation center:
 papers available, listing, 2899
 special papers available, 7484, 8880, 10111, 11703, 14904, 17403

Foreign agents, registration act, administration, reports, 2099, 14434

Foreign Agricultural Service:
 appropriations, 1970—
 hearings, 7945
 report, 9311, 12254
 biographic register, 13470
 miscellaneous, FAS-M series, 667, 1903, 4290, 6996, 8271-82, 9841, 11154-155, 12669-670, 15746-748
 special reports, lists, 1904, 11156

Foreign agricultural trade, *see* Agricultural commodities.

Foreign agricultural trade of United States, 2900

Foreign agriculture, *see* Agriculture.

Foreign agriculture (periodical), 2901

Foreign agriculture circulars, 2902

Foreign aid:
 agricultural development, monthly newsletter to cooperators, 2904
 challenge of development, 15892
 Colombia, case history of U.S. aid, alliance for progress, survey, 5445
 development assistance in new Administration, report, 7121
 development digest (periodical), 2765

INDEX 1969

Foreign aid—Continued
 development loans and technical assistance programs, 1967, number of countries to receive assistance, presidential determination to increase, hearings, 8067
 economic assistance—
 appropriations, 1970, amendments, 10696
 foreign assistance appropriations, 1970, hearings, 16812
 funds improperly used to finance vehicles for defense requirements, International Development Agency, GAO report, 15778
 Latin America, obligations and loan authorizations, 822
 programs administered by Agency for International Development and predecessor agencies, 8491
 economic cooperation, agreement with Spain, 14909
 foreign aid and U.S. national interests (statement), 16465
 foreign assistance act of 1961 amend—
 analysis of bill, 399
 development of cooperative enterprises, 1967, report, 6708
 hearings, 3990, 10780, 12218, 13928, 15316, 15452
 Ramseyer rule print of bill, 398
 report, 16805
 foreign assistance act of 1968—
 analysis, 399
 hearings, 3990
 Ramseyer rule print, 398
 foreign assistance act of 1969—
 background material, fiscal year 1969, compilation, 397
 hearings, 10780, 12218, 13928, 15316, 15452
 report, 16805
 foreign assistance appropriations, 1970, hearings, 15299, 16812
 foreign assistance programs, authorizations and appropriations—
 1968-69, staff memorandum, 6712
 1969, staff memorandum, 6713
 report 1968—
 departmental edition, 4425
 document edition, 3961
 International Development Agency, operations, reports, 3225, 8490, 12860
 international rehabilitation research and demonstration projects, annotated listing, 8853
 Latin America, alliance for progress—
 toward a strategy of Inter-American development, new directions for the 1970's—
 hearings, 10783
 report, 12193
 United States aid operations, review, hearings, 12226
 Latin American countries—
 hearings, 10783
 report, 12193
 link between reserve creation and assistance to developing countries—
 hearing 10689
 proposal, 12131
 linking reserve creation and development assistance, staff study, 6566
 new directions, President Nixon's message to Congress, 10002
 program, "... doing what is right to do," 15893
 provided through operations of United States Sugar act and International coffee agreement, GAO report, 17065
 technical cooperation, agreement with—
 Afghanistan, 1449, 7510, 14920
 Australia, 6285
 U.S. assistance program in Viet-Nam, 1439
 U.S., in east Asia, 11428

Foreign aid—Continued
 United States program in Pakistan and India, report of special study mission, 1699
 USDA/AID training programs, picture story, 56
 voluntary programs, reports, 10063
 what to do about foreign aid, staff memorandum, 7955
see also names of countries.
 Foreign Area Research Coordination Group, FAR horizons (periodical), 2817
 Foreign assistance, *see* Foreign aid—Military aid.
 Foreign claims, *see* Claims.
 Foreign Claims Settlement Commission:
 annual reports, 5663, 17012
 appropriations, 1970—
 hearings, 10767, 16878
 report, 12192
 decisions and annotations, 668
 settlement of claims of U.S. nationals against Government of Cuba, extension of time, provide, hearing, 10782
 Foreign commerce, *see* Commerce.
 Foreign countries:
 agricultural market development activities of principal competing countries, 8270
 background notes, 1436, 2481-84, 4948-61, 6260-71, 7476-81, 8872-78, 10404-409, 11691-11700, 14890-14903, 16459-461, 17398-402
 births of United States citizens abroad, 1965 reports, 1330
 child nutrition in developing countries, handbook for fieldworkers, 11311
 competition in horticultural products, 12669
 consular offices in United States, 8879
 convention on transit trade of land-locked States, report, 1725
 country market digest (series), 9999
 designation used in compiling U.S. foreign trade statistics, code classification, schedule C, changes, 5209
 developing countries, manpower surveys and reports, 1958-68, summaries, 14459
 developing nations and space technology transfer, 1031
 developing nations, link between reserve creation and development assistance—
 hearing, 10689
 proposal, 12131
 economic concentration—
 hearings, 485
 supplementary material, hearings 8079
 economic data for less developed countries, 12862
 Federal jobs overseas, 15147
 fees charged for visa of United States passports, list, 7483
 foreign banking procedures, legal and economic impact on United States, hearing, 3987
 foreign economic trends and their implications for United States, ET series, 5783-99, 7101-16, 8459-82, 9987-98, 11301-307, 12843-852, 14418-423, 15876-887, 17105-120
 foreign grants, loans, and credits, regulations governing reporting to Treasury Dept., 2523
 future construction, quarterly summary, 16644
 geologic features in areas outside the United States, descriptive catalog of selected aerial photographs, 7052
 governments, recognition by United States, expressing sense of Senate—
 hearing 10901
 report, 15358
 holidays around world listed, commercial guide, 7100

- Foreign countries—Continued
 international marketing information service, IMIS (series), 9999
 living costs abroad, State department indexes, 5913
 living quarters allowances, State Department, 14480
 1969-70 labor, manpower, and price statistics training program for statisticians and economists, 8557
 ocean space, basic principles governing activities of nations, place before United Nations Committee on Peaceful Uses of the Seabed and Ocean Floor, expressing sense of Senate, hearings, 15450
 oceangoing foreign flag merchant type ships of 1,000 tons and over owned by United States parent companies, 14489-490
 on-the-job training and wage-hour standards, 5898
 passenger travel to and from U.S., 788, 3381, 8404
 plant quarantine import requirements—logs and lumber, 14977
 summaries, list, 10
 restrict transfers of capital to foreign countries by substantial investors in U.S., etc., 14432
 Rio and Anzus pacts, review of U.S. military commitments abroad, report of subcommittee, 1697
 scientists and technicians from other countries, intern-training opportunities provided by U.S. Geological Survey, 14341
 service abroad of judicial and extrajudicial documents, convention, 6303
 statistical briefs, 3461
 statistical publications, accession list, 2908
 Task Force on Prescription Drugs, background notes, current drug programs, 1981
 technical information activities (talk), 7446
 transition from school to work in selected countries, 16030
 what should be the United States commitment to foreign countries? National debate for high schools, 1969-70, selected excerpts, etc., 9379
see also Foreign agents—Foreign aid.
 Foreign currencies, *see* Money.
 Foreign direct investment program (address), 308
 Foreign economic policy-trade, payments and controls (address), 1653
 Foreign exchange:
 gold reserves, 1968 review, 8162
 rates—
 monthly, 2903
 Treasury reporting rates of exchange, 3613
 weekly, 2904
 remarks, 2530
 Treasury and Federal Reserve operations, 1892, 8253, 15733
 Foreign languages, *see* Language and languages.
 Foreign Manuscript Copying, Center for Coordination of, *see* Center for Coordination of Foreign Manuscript Copying.
 Foreign market reports, accessions list, 2905
 Foreign policy, *see* International relations.
 Foreign products available for production in U.S. under license agreement, 14424
 Foreign regulations affecting U.S. textile/apparel exports, 13726
 Foreign relations, *see* International relations.
 Foreign Relations Committee, Senate:
 alliance for progress survey, compilation of studies and hearings, 9380
 calendar, 3059
 committee prints, 468-470, 5441, 5445-46, 8061, 8063, 8066, 8069, 9158-59, 9461
 Foreign Relations Committee, Senate—Con. hearings, 467, 1079-81, 5442-44, 8062, 8064-65, 8067-68, 9460, 9462, 10897-901, 12298-299, 14031, 15450-452, 15454, 16884
 investigations and studies, U.S. foreign policies, authorization, report, 4054
 reports, 8027, 8084, 10855-856, 15358, 15393
 Foreign scholars and educational and cultural exchange visitors, tax information, 8430
 Foreign Scholarships Board, annual report, 9822
 Foreign Service:
 biographic register, 13471
 career, general information, 13471
 department and foreign service series, 1437, 2485, 8879, 11702, 13470-471
 diplomatic and consular instructions, 1791-1801, State Dept. pamphlet to accompany microcopy, 14655
 embassy sites, agreement with Union of Soviet Socialist Republics, 14907
 list, 2907
 officers, key, of foreign posts, guide for businessmen, 3028
 Foreign Service Institute:
 basic language course—
 Arabic, 11710
 Korean, 11709
 Serbo-Croatian, 7490
 Finnish, grade reader, 1411
 Indonesian, newspaper reader, 1443
 Foreign trade, *see* Business—Commerce—
 also names or classes of commodities.
 Foreign-Trade Zones Board, annual report, 9843
 Foreigners, *see* Aliens.
 Forest conservation, *see* Forests and forestry.
 Forest fires:
 air tanker pilots flying forest fire retardant mission, physiological studies, 10581
 Alaska coastal stations, fire danger indexes, summary and analysis, 12720
 cooperative control program financing Federal, State, and private funds, 15751
 cooperative forest fire control expenditures by source of funds, preliminary data, 7000
 critical fire weather patterns in conterminous United States, 5579
 detection, 1906
 draught index for forest fire control, 8310
 fire behavior training, exercises, 8275
 fire control notes (periodical), 2891
 fire hazard inspection procedures, Butte County, Calif., follow-up evaluation, 1916
 fire weather data, portable station for recording, 17031
 Gaston fire, 8311
 interior Alaska wildfires, 17015
 national forests, annual report, 11157
 1968 wildfire statistics, 14298
 protecting forests from fire, 5029
 wildfires, unusual wind shifts, 8312
 see also Fires—Forests and forestry.
 Forest Haven, Laurel, Md., mentally retarded patients, voluntary admission to provide care, education and treatment, report, 7909
 Forest lands, *see* Forests and forestry.
 Forest management:
 computer program for scheduling allowable cut using either area or volume regulation during sequential planning periods, 8295
 even-aged management, Piedmont National Wildlife Refuge, 1412
 forestry management in West Pakistan, 12859
 form recovery by understory sugar maple under uneven-aged management, 15756

- Forest management—Continued
managing eastern reedcedar, 8315
Cascades, management direction for wilderness and primary recreation zones of national forests, 14269
pine management pays off, 11746
timber stands, rapid computation of yield tables, 698
wilderness users in Pacific Northwest, management preferences, 8305
woodland grazing management, 12685
Forest nurseries, tree planters' notes, 3530
Forest pest leaflets, 1907, 11161-161, 14263
Forest planting:
development of white and Norway spruce trees from several seed sources 29 years after planting, 11174
direct-seeded southern pine seedlings, root growth, 8297
Douglas Fir reforestation in southwestern Oregon, economic guides, 5917
mountain longleaf pine excels only in local plantings, 8301
Penny Pines Cooperative Reforestation Program, progress report, 15755
planting, and clearcutting, best for regenerating pine in northern Mississippi, study, 8299
ponderosa pine forests in Arizona, thinning, clearcutting, and reseeding affect deer and elk use, 5671
potential damage to forest tree processing, protective treatment and dissemination, 4319
seeding rangeland with pellets, evaluation, 9866
soil moisture tension variation on outcrops in southwestern Oregon, 4327
southern pines, replacement planting, unsuccessful, 8303
tree planters' notes, 3530
see also Forests and forestry—Tree planting.
- Forest products:
American forests, 7599
demand and price situation, 5052
industries, SBA services, 7449
insecticides, guide, 10477, 11862
photographs in Division of Agriculture and Forest Products, annotated list, 13414
Forest Products Laboratory:
annual report of research, 14249
dividends from wood research, publications, list, 7001
publications, list—
chemistry of wood, 670
dividends from wood research, 4297
interest to architects, etc., 4298
Forest rangers, in your service, the work of Uncle Sam's forest ranger, 14988
Forest research, see Forests and forestry.
Forest resources, see Forests and forestry.
- Forest Service:
annual report, 12694
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793
California Region, progress report, progress in 1968, 15750
comments on resolutions relating to national forest system, 4299
engineers, career opportunities, 3650
equipment development ED&T report, 12679-680, 14259-261
field offices, listings, 11160
films, available for educational purposes, list, 11165
how it fits in the Federal structure, history, etc., 17013
Intermountain region yearbook, national forests in profile, 12689, 14273
move ahead! research careers, 1513
national forest log scaling handbook, 9846
outdoor recreation research, bibliography, supplement, 9845
- Forest Service—Continued
poster, how a tree grows, 7002
range and wildlife habitat publications, 7007
research notes, 674-682, 1910-31, 4303-21, 5669-78, 7008-18, 8291-8304, 9847-65, 11171-180, 12695-707, 14281-288, 15756-760, 17017-36
research papers, 683-699, 1932-36, 4322-31, 5679, 7019-21, 8305-17, 9866-69, 11181-190, 12708-715, 14289-291, 15761-775, 17037-54
resource bulletins, 700-701, 1937-39, 4332-35, 8319-20, 11191-194, 15776
survival preparedness in rural areas, programmed instruction, 5667
timber sales, competition for Federal timber in Pacific Northwest, analysis, 12710
Forest thinning:
crop-tree thinning of ponderosa pine in Pacific Northwest, 12704
loblolly pine of eastern Maryland, ten-year effects from row thinning, 7008
ponderosa pine, pole-sized, periodic growth as related to thinning and environmental factors, 694
thinned white spruce plantation, 15-year growth, 11176
thinning improves growth in stagnated sweetgum stands, 8300
thinning program for Malheur National Forest, 14296
- Foresters:
conservation occupations, 4492
so you want to be a forester? 11196
Forestry, see Forests and forestry.
Forestry cooperatives, establishing, guidelines, 17048
Forests and forestry:
code of Federal regulations, 9815
conservation in your life, services to educators, 14256
cooperative State-Federal research, 14989
early growth and development of 4 pine species in Hawaii, 17034
east Oklahoma forests, 701
eastern forests and farm woodlands, tree diseases, 6375
elementary allocation models, how to use in forestry operations, 17032
evaluation of forest canopies by photography, 1576
even-aged silviculture for upland central hardwoods, 5026
fire prescription for consuming ponderosa pine duff, 1223
forest atlas of Northeast, 669
forest cover types in northern New Mexico, soil temperatures, 5670
forest ecosystems, nitrogen enrichment by red alder, 12714
forest floor—
different layers, relationship to herbage production, 5675
under ponderosa pine in Arizona, some characteristics, 9847
forest industry manpower training needs in Tennessee Valley region, 17418
forest inventory statistics—
Bradley-Hamilton County unit, Tenn., 11743
Cullman County unit, Ala., 11742
Graham-Swain County unit, western North Carolina, 2515
Humphreys-Perry County unit, Tenn., 6323
Jackson County unit, western North Carolina, 16498
Lauderdale County unit, northwestern Alabama, 11741
forest regions of U.S., map, 1908
forest soils, improved technique for taking hydraulic conductivity cores, 17026
forest statistics for—
Mississippi counties, 11194
Southern Coastal Plain of South Carolina, 1938

Forests and forestry—Continued

forest survey estimates, stratifying stand volume on non-stereo aerial photos reduces errors, 17053
forest taxation and rural values in New York, 6999
forest technology, suggested 2-year post high school curriculum, 4171
forestry aids, conservation occupations, 4492
forestry attractions, Norris Dam Reservation, 11749
forestry bulletins, Tennessee Valley Authority, 2515, 6323, 11741-743, 16498
forestry on modern Georgia farm, 11744
forestry opportunities under 3 investment criteria, computer program for evaluating, 15774
forestry research progress, McIntire-Stennis cooperative forestry research program, annual report, 15484
forests forever, 8279
forests in South Dakota, 8319
historic books and manuscripts concerning horticulture and forestry in collection of National Agricultural Library, 1157
Horseshoe properties, quarter century of forestry progress, 13503
industries—
Northwest, production, prices, employment, and trade, 3337
opportunities in 10 counties of Tennessee and Virginia, 6322
industry, expansion opportunity in Tennessee Valley, 1474
industry manpower training in Tennessee Valley region, 7545
insect outbreaks in Oregon and Washington, 671
insect population dynamics, 15772
insects, conditions in United States, 9844
Kansas woodlands, 4332
length and area equivalents for interpreting wildland resource maps, 17035
make your farm woods profitable, 11745
managing your woodlands, how to do it guides, 12685
moisture changes in slash, effect of asphalt and wax emulsions, 17051
move ahead! research careers in Forest Service, 1513
multiple use of family forests, 8286
national, Douglas-fir supply study, alternative programs for increasing timber supplies, 12676
Northeastern area State and private forestry series, 7004-6, 11169
nutrient cycling by throughfall and stemflow precipitation in coastal Oregon forest types, 4326
outdoor recreation, catalog of research projects and studies, 6819
outdoor recreation research, bibliography, supplement, 9845
pests, conditions in Pacific Northwest, 8278
ponderosa pine forests in Arizona, thinning, clearcutting, and reseeding affect deer and elk, use, 5671
private forest management in Tennessee Valley, 11747
public assistance for forest landowners, 5060
publications, price list, 10292
research news for Mid-south, 2922
research notes, 674-682, 1910-31, 4303-21, 5669-78, 7008-18, 8291-8304, 9847-65, 11171-180, 12695-707, 14281-288, 15756-760, 17017-36
research papers, 683-699, 932-36, 4222-31, 5679, 7019-21, 8305-17, 9866-69, 11181-190, 12708-715, 14289-291, 15761-775, 17037-54
research progress 1968, Pacific Southwest, 8318

Forests and forestry—Continued

resource bulletins, 700-701, 1937-39, 4332-35, 8319-20, 11191-194, 15776
saving forests and related wildlife resources from insects and diseases, 13599
silvatic characteristics, yellow poplar, 9868
slash, can thinning cause nitrogen deficiency in pumice soils of central Oregon? 680
southwestern coniferous forests, aspen grove use by deer, elk, and cattle, 14281
starting a community forest, 14293
statistics, 1969, northwest Florida, 11193
suggestions for integrating forestry in modern curriculum, 14294
Tennessee Valley Authority publications, 8915, 16500
use of air tankers pays off, case study, 17033
wildlife habitat research, Pacific Southwest, 12691
woodlands—
southern Blue Ridge area of Georgia, North Carolina, South Carolina, and Tennessee, 17391
southern Coastal Plain and Blackbelt areas of Arkansas, Louisiana, Oklahoma, and Texas, with average rainfall of 25 to 30 inches during frost-free period, 16410
working forest, 4336
your water supply and forests, 6376
see also Forest fires—Forest products—Forest thinning—National forests—Tennessee River and Valley—Timber—Trees—Volume and yield tables—also names of forests.
Forge shops, see Forges.
Forgeries, forgery, secret service report to the Public, 8844
Forges, forging occupations, employment outlook, 4510
Forgings, advanced gear-forging techniques, evaluation, 11954
see also Steel—also names of metals, etc., forged.
Fork lift truck operators, see Industrial truck operators.
Fork lift trucks, see Motortrucks.
Forked Deer River:
flood plain information, 12457
floods, how to avoid damage, 12497
Forks, trade and tariff information, summaries, 1464
Formalization of measurement scale forms, 11481
Forms, blanks, etc.:
A.T.A. carnet for temporary admission of goods, customs convention, 7513
customs convention, international transport of goods under cover of T I R carnets, 8887
Domestic Gold and Silver Operations Office, procedures and descriptions, 13512
E.C.S. carnets for commercial samples, customs convention, 7514
GSA forms catalog, 7038
index of AMC blank forms, 3735, 5106, 7644, 10539, 16581
management, records management handbook, 16222
operating forms, Federal manual for supply cataloging, changes, 9512, 10943
see also names of departments, etc. issuing or using forms—also subjects.
Forshey, D. R., reactivity of ammonium nitrate-fuel oil with pyrite-bearing ores, 975
Forstall, John R., manikin measurements of noise attenuation provided by flight helmets, 11503
Forsyth, Gordon J., reclamation era, water review quarterly, 3369
Fort Bayard Military Reservation, lands, sell to Central, N. Mex., hearings, 387

- Fort Berthold Reservation, lands, hold in trust, reports, 14006, 16784
- Fort Bliss National Cemetery, general information, 7654
- Fort Bowie National Historic Site, historic structures report, 8724
- Fort Churchill, Manitoba, rotary drilling and coring in permafrost, preliminary investigation, 3747
- Fort Collins, Colo., WWV radio station, frequency-time broadcast services, chronology, 1182
- Fort Davis National Historic Site, general information, 11549
- Fort Donelson National Military Park, administrative history, 8713
- Fort Hill quadrangle, Wyo., geology, 9902
- Fort Huachuca, Ariz., Electromagnetic Pulse Simulator Site, electric properties of earth, 15796
- Fort Jefferson National Monument, general information, 11550
- Fort Laramie National Historic Site, general information, 1220, 8722
- Fort Larned National Historic Site: general information, 2317
historical data, historic structures report, 17286
- Fort McHenry National Monument and Historic Shrine: general information, 4800
incidents relative to writing of Star-Spangled Banner, 14704
master plan, 16277
- Fort Matanzas National Monument, historical research management plan, 8717
- Fort Moultrie: capture, documented narrative and troop movement maps, 8715
first two Fort Moultries, structural history, 8721
- Fort Myers, Fla., W. P. Franklin Dam, test of flushing procedures to control salt-water intrusion, 8359
- Fort Philip Kearney, Dakota Territory, massacre, investigation records, microcopy, pamphlet to accompany, 1169
- Fort Point National Historic Site, proposal, 14701
- Fort Smith, Ark.: flood plain information, 4204
Mill Creek floods, how to avoid damage, 4207
- Fort Sumter National Monument: Battery Jasper, historical data, 10205
battle of Sullivan's Island and capture of Fort Moultrie, narrative and troop movement maps, 8715
structural history, 8721
- Fort Wingate Army Depot, N. Mex.: drilling and testing of well 340, 12767
water well, site study, 12788
- Fort Worth, Tex.: area wage survey, 7180
metropolitan intrastate air quality control region, report for consultation, 17356
- FORTTRAN, *see* Computer programs/programming.
- Fortson, Mildred T.: bimonthly list of publications and motion pictures, 2625
list of available publications of Agriculture Department, 12823
- Forwarders, *see* Freight forwarders.
- Foshag, W. F., lifting horizontal-axis rotating-wing aeronautical systems (HAR WAS), review and evaluation, 13677
- Foss, Murray F., survey of current business, 3487
- Fossil fuels, fossil powered plants, planning for environmental protection in siting, (remarks), 16633
- Fossils: ectothere skeletons from Miocene Chop-tank formation of Maryland and Virginia, 8710
- Fossils—Continued
Girty's invertebrate fossils from Fayetteville shale (Mississippian) of Arkansas and Oklahoma, revision, 15803
marine mammals from Miocene Calvert Formation of Maryland and Virginia, 8705
- Foster, Helen L.: asbestos occurrence in Eagle C-4 quadrangle, 4358
reconnaissance geology of Eagle A-1 and A-2 quadrangles, Alaska, 9888
- Foster, John F., systems approach to evaluating Hydrogenomonas cultures, 7232
- Foster, John S., Jr., nomination, hearing, 5428
- Foster, Margaret D., studies of celadonite and glauconite, 12783
- Foster, R. L., potential for lode deposits in Livengood Gold Placer district, east-central Alaska, 11233
- Foster Creek, river mile index, 13310
- Foulger, A. N., classroom demonstrations of wood properties, 7611
- Fouling, characteristics of ASTM Jet A fuel when heated to 700° F in simulated heat exchanger tube, 2257
- Fouling organisms: marine biofouling—
at Penobscot Bay, Maine, and Placentia Sound, Newfoundland, 1960-68, 16293
studies in Montego and Oyster Bays, Jamaica, oceanographic cruise summary, 13253
studies of Maizuru, Yokosuka, and Sasebo, Japan, oceanographic cruise summary, 2327
- Foundations (charitable and educational): foundations and nonprofit research institutions, 1966, 1969, support of medical research and education, 14695
private foundations—
engaging in improper transactions with Government officials, deny tax exempt status, hearing, 10894
Treasury report, digest of statements, 7987
tax-exempt foundations and charitable trusts, their impact on our economy, 13942
tax-exempt, their impact on small business, hearings, appendix, 1711
see also Charitable institutions.
- Foundations (construction): flexible, critical-speed analysis of rigid rotors on, 1084
foundations of structures in cold regions, 15040
house foundation of treated wood after 30 years' service, 688
slopes and embankment foundations, stability analysis electronic computer program, 16382
- Founding, metal founding, classification definitions, 4840
- Foundries: copper-base products, current industrial reports, 2733, 9130
iron and steel—
current industrial reports, 6497
industry wage survey, 14457
occupations, employment outlook, 4577
- Foundry supplies, foundry equipment and supply industry, 5196
- Fountain, James B., feasibility of shipping fresh apricots and prunes jumble packed in fiberboard boxes, 14997
- Fountain Creek: flood plain information, 9674
floods in Pueblo, Colo., how to avoid damage, 12507
- Four Corners Regional Commission: Federal cochairman, nomination of W. Donald Brewer, hearing, 8091

- Four Corners Regional Commission—Con.
Federal-State partnership for economic growth, 9870
press releases, 3291
- 4-II clubs:
reports to nation, 14192
this is 4-II, general information, 8977
- Four States Irrigation Council, meeting, proceedings, 10348
- Fourier analysis, by method of selected ordinates, 7267
- Fourney, W. L., normal mode theory for combined structures, 6146
- Fourth-class mail rates, see Postage.
- Fowkes, Richard S., materials handling research, hydraulic transportation of coarse solids, 14549
- Fowler, Don D., John Wesley Powell and anthropology of canyon country, 11248
- Fowler, Henry H.:
remarks, etc.
Oct. 1, 1968, 1479
Dec. 2, 1968, 2521
- Fowler, Laurie G., tests of vitamin supplements and formula changes in Abernathy salmon diet, 10401
- Fowler, William B.:
digital indicator for maximum windspeeds, 12702
digital temperature monitor for photorecording, 12699
- Fowlkes, Charles W., photoviscoelastic model testing, 5988
- Fox, Austin, extent of farm pesticide use on crops, 1799
- Fox, Charles H., radioactive wastes, 7722
- Fox, Charles H., Jr., prediction of lift and drag for slender sharp-edge delta wings in general proximity, 4704
- Fox, Harry W., Jr., analog computer study of low frequency flow dynamics of two-nuclear-rocket cold-flow engine systems, 13104
- Fox, J. Ronald, nomination, hearings, 12286
- Fox, John L.:
literature relating to neurosurgery and neurologic sciences, 6333
selected readings in techniques of stereotaxic brain surgery, 1485
selected readings in techniques of stereotaxic neurosurgery, 7554
- Fox, Kenneth, F., Jr., geology of magnesite deposits in northern Okanogan County, Wash., preliminary report, 735
- Fox, R. B., photophysical processes in polymer photodegradation, etc., 10258
- Fox Creek, flood plain information, 9678
- Foxes, red fox, habitat needs, etc., 14870
- FPC, see Federal Power Commission.
- FPC S series, 641, 1872
- FPL, see Forest Products Laboratory.
- Frans, Foster, magnetic separation of minerals of low susceptibility and small particle size, 14555
- Fracture, see Fracture of metals.
- Fracture of metals:
comparison of fracture toughness test procedures for aluminum alloys, 8763
coupling of fracture mechanism and transition temperature approaches to fracture-safe design, 10270
crack propagation in high-strength steel under constant cyclic load with variable mean loads, 6151
crack toughness characteristics of several alloys for use in heavy sections of high speed aircraft, 5993
cryogenic properties of thin AISI 301 60-percent cold-reduced sheet at various angles to rolling direction, 16168
dynamic tear test of temperature transition from linear elastic to gross strain fracture conditions, 6147
fatigue crack—
growth in 180-ksi yield strength steels in air and salt water environments, 2355
Fracture of metals—Continued
fatigue crack—continued
growth in 7075-T6 and 2024-T3 aluminum alloy specimens, effect of stress ratio, 14635
propagation behavior in panels with simulated rivet force, prediction, errata, 4699
propagation in cylindrical cells, 1018
in notched specimens, ultrasonic detection and measurement, 2221
fracture characterization of narrow gap weldments, mechanical considerations 11569
fracture toughness—
characterization procedures and interpretations to fracture-safe design for structural aluminum alloys, 11568
tests for titanium and ferrous alloys, correlation, 7380
hot-salt stress-corrosion of titanium alloys, generation of hydrogen and its embrittling effect, 4728
integration of metallurgical and fracture mechanics concepts of transition temperature factors relating to fracture-safe design for structural steels, 13300
low-cycle crack growth in 2014-T6 aluminum sheet at 320°F (77K), factors influencing, 7298
low temperature behavior of notched and welded plates, effect of repeated loads, 1376
managing steel weld in range from 150- to 200-ksi yield strength, fracture toughness characteristics, ratio analysis diagram interpretations, 11570
notch brittleness after prestraining, 4922
plastic flow in locale on notches and cracks in Fe-3Si steel under conditions approaching plane strain, 2447
semiempirical fracture analysis for small surface cracks, 13118
stable crack propagation in viscoelastic strip, 7227
standard method for 1-inch dynamic tear test, 16314
steel, 5Ni-Cr-Mo-V, characterization of fracture toughness by Charpy V-notch and dynamic tear tests, 13292
stress-corrosion cracking characterization procedures and interpretation to failure-safe use of titanium alloys, 11571
subcritical flaw growth in 9Ni-4Co-0.25C steel fatigue and fractographic investigation, etc., 13277
thermal fatigue cracking and oxidation of nickel- and cobalt-base alloys in high velocity gas stream, 14624
Ti-6Al-4V titanium-alloy sheet, tensile and stress-rupture properties, effect of hot-salt stress-corrosion cracking, 16170
titanium alloys, fracture toughness characterization etc., to failure-safe design structural procedures, 7383
- Fractures, simulated underground, factors affecting detonation velocities of desensitized nitroglycerin, 13023
- Frames, greenhouse framing for plastic covering, farm building plan, 3657
- Framingham, Mass., cardiovascular disease, study, 8686-96, 16255
- France, Alfred E., nomination, hearing, 9493
- France:
air transport services, agreement, 11928
background notes, 6263
deciduous fruit canning, 8272
economic trends and their implications for United States, 12844
establishing business, 3896
mineral industry, minerals yearbook chapter, 2141
plant quarantine import requirements, 13547
selling in France, 9204

- Franchises (business):
franchise company data, equal opportunity
in business, 13727
management development program, in-
structor's manual, 4923
- Francis Marion National Forest, birds, list,
5664
- Franco, John J.:
Kaskaskia River navigation project, Ill.,
5573
navigation conditions—
Fort Smith reach, Arkansas River, 607
lock and dam no. 7, Arkansas River,
hydraulic model investigation, 8186
Ozark Lock and Dam, Arkansas River,
1828
Robert S. Kerr Lock and Dam, Arkansas
River, hydraulic model investigation,
605
Webbers Falls Lock and Dam Arkansas
River navigation project, hydraulic
model investigation, 15668
- Frank, Benis M., victory and occupation,
history of Marine Corps in World War II,
16042
- Frank, F. J., ground water in Clatsop County
sand dunes, 9899
- Frankenstein, Guenther E., ring tensile
strength studies of ice, 7650
- Franking privilege:
Mamie D. Eisenhower, provide, law, 9226
telegraph and telephone, FCC rules and
regulations, 2837
- Franklin, A. D., ARPA-NBS program of re-
search on high temperature materials,
16228
- Franklin, J. L., ionization potentials, ap-
pearance potentials, and heats of forma-
tion of gaseous positive ions, 10174
- Franklin, W., small gas turbine engine com-
ponent technology, phase II summary re-
port, 1586
- Franklin, Tenn., flood plain information,
12460
- Franklin County, Ark., community profile,
15560
- Franklin D. Roosevelt Library, Roosevelt
era, selected bibliography of periodical
and dissertation literature, 10166
- Franklin Delano Roosevelt Postal Station,
New York, N.Y., dedication (address),
1301
- Frasca, Albert, study to determine if correla-
tion exists between metal fatigue life and
capability of metal to absorb or retain
inert gas, 15057
- Frasca, Maria B., relief, 6618, 9389, 12084
- Frasco, Louis A., communication system de-
sign, 17227
- Fraser, George D., geology of Gardiner area,
Park County, Mont., 11232
- Fraser, T. M., review of physiological meas-
urement techniques for applicability to
space flight conditions, 4686
- Fraser Corner, Del., floods, how to avoid
damage, 12500
- Fraud:
enforcement report of Postal Inspection
Service, monthly, 2798
mail, laws protecting consumers, inves-
tors, businessmen, medical patients, stu-
dents, 14771
- Frear, Samuel T., Willamette 1968, a na-
tional forest and national wilderness
preservation system, 1968 annual report,
14299
- Freche, John C., evaluation of two nickel-
base alloys, alloy 713C and NASA TAZ-
SA, produced by extrusion of prealloyed
powders, 10150
- Fredella Village, Vicksburg, Miss., low-in-
come housing demonstration project, 5752
- Free field rapid access format for BT pro-
files, 13261
- Free-stall barn for 50 cows, housing only,
5055
- Free-stall barn for 62 cows, arrangement
for dairy system, 5056
- Free-stall system for dairy cows, 6390
- Free Trade Association, Latin American, *see*
Latin American Free Trade Association.
- Freeberg, Jacquelyn H., terrestrial impact
structures, bibliography 1965-68, 9890
- Freed, C. N.:
comparison of fracture toughness test pro-
cedures for aluminum alloys, 8763
correlation of two fracture toughness tests
for titanium and ferrous alloys, 7380
mechanical considerations in fracture
characterization of narrow gap weld-
ments, 11569
- Freedmen, Refuges, and Abandoned Lands
Bureau, *see* Refuges, Freedmen, and
Abandoned Lands Bureau.
- Freedmen's Bureau, *see* Refugees, Freedmen,
and Abandoned Lands Bureau.
- Freedom, *see* Liberty.
- Freedom of information act, *see* Public In-
formation.
- Freedom of the seas, American ships are
freedom's lifeline (remarks), 7806
- Freeman, David H., Separation and Purifi-
cation Section, summary of activities, 2296
- Freeman, Delma C., jr.:
low subsonic flight and force investigation
of supersonic transport model with var-
iable sweep wing, 1053
static and dynamic stability derivatives of
model of a jet transport equipped with
external-flow jet-augmented flaps, 14646
- Freeman, J. J., experiments in discrimina-
tion and classification, 8760
- Freeman, Orville L.:
addresses—
July 15, 1968, 26
Dec. 11, 1968, 7583
Jan. 9, 1969, 7582
- Freeman, Philip G., coal-derived humus,
plant growth effects, 981
- Freeman, T. G., Federal-State-private coop-
erative snow surveys for Alaska, 2875
- Freeman, Val L., geology of Comstock-Indian
Wells area, Val Verde, Terrell, and Brew-
ster Counties, Tex., 4364
- Freeways, *see* Roads and highways.
- Freeze drying, *see* Lyophilization.
- Freezers, meat for your freezer, how to buy,
7593
- Freezing:
desalting of seawater by freezing, 803
effect of growth parameters on substructure
spacing in NaCl ice crystals, 9030
freeze desalination crystallizers, develop-
ment of methods for determining ice
particle size distribution, 7087
home freezing of fruits and vegetables,
13589
resistance to, by preplaced-aggregate con-
crete, 604
salt water desalination by freezing method,
USSR study, 15928
secondary refrigerant freezing desalting
process, operation of 15,000 GDP pilot
plant, 9959
secondary refrigerant process, mathemati-
cal study, 798
three-phase heat transfer, transient con-
densing with freezing on nonisothermal
inclined plate, 13093
see also names of commodities, etc., frozen.
- Freight:
commodity statistics—
annual report, 5806
motor carriers, 10005
cost of transporting by class 1 and 2 motor
common carriers—
by regions or territories, 12869
East-South territory, 12865
Middle Atlantic region, 12866
South-Central territory, 12867
Southern region, 12868

Freight—Continued
 descriptions and suffixes, transportation and travel, Army regulation, 15034
 handling by motor carriers, cost, 12872
 rail service costs, formula for determining, errata, 12870
 small freight shipments, opportunity for savings from Government consolidation system, GAO report, 11220
 time series regression analysis of freight and passenger transport demand to 1980, 16509

Freight cars:
 railroad, dismantling, improved methods, study, 17335
 supply, critical shortages, hearing, 10892

Freight forwarders:
 mail transportation laws, revision, 3996
 ocean freight forwarding future (remarks), 15712
 revenues, expenses, and statistics, quarterly, 3393
 TOFC contracts with railroads, permit, amend interstate commerce act, hearings, 462

Freight rates:
 airfreight rates, introduction, 3869
 joint rate and through route problems (remarks), 16992
 single factor tariff rates (remarks), 16993

Freight trains, see Railroads.

Fremming, P. D., roll and yaw compensation feasibility study, 4661

Fremont County, Wyo., geology of Oregon Buttes area, 4348

French Guiana:
 capsule facts for Armed Forces, 114
 economic trends and their implications United States, 8470
 economy, basic data, 3902
 plant quarantine import requirements, 13548

French Lick, Indiana, climatic summaries of resort areas, 5575

French Territory of Afars and Issas:
 background notes, 4949
 capsule facts for Armed Forces, 9024
 Somalia boundary study, 4965

Frenchboro Harbor:
 engineers report—
 departmental edition, 15661
 document edition, 15352

Freon, freon-114 data in sealed venturis, prediction of thermodynamic effects of developed cavitation, 1116

Frequencies:
 and vibration modes of orthotropic thin shells of revolution having general meridional curvature, method for computation, 4710
 biological effect of high-frequency ultrasound, USSR study, 5816
 cells, two analysis-of-variance programs for disproportionate frequencies, 16059
 contribution of X-ray and extreme ultraviolet radiation of solar flares to sudden frequency deviations, 9725
 dielectric properties of clay suspensions in frequency ranges from 50 Hz to 20 KHz, 15650
 frequency method of range finding, USSR study, 15979
 loss factor and resonant frequency of viscoelastic shear-damped structural composites, 5976
 low, electricity, precision measurement and calibration, 4763
 management engineering principles, VHF/UHF/microwave link facility handbook, 12590
 natural, 4-stage solid-propellant rocket vehicle, investigation, errata, 2215
 optimum frequencies for high frequency sky-wave communication services, technical considerations in selection, 12568

Frequencies—Continued
 parametric interaction of superhigh frequency field with plasma, theory, 15071
 plasma absorption of high-frequency energy near lower hybrid frequency, 15068
 superhigh-frequency generation of strongly ionized argon plasma, 16606
 super-high-frequency power in magnetic field steady state condition, determination of plasma parameters produced, 15064
 useful frequency range of piezoelectric accelerometers, considerations in computing, 11525
see also Radio frequencies.

Frequency band:
 propagation data, irregular terrain, 220 to 9200-MHz range, tabulations, Fritz Peak receiver site, 9722

VHF propagation curves, development for Maritime Mobile Radio Service, 12604

VLF effective ground conductivity map of Canada and Greenland with revisions derived from propagation data, 10269

VLF mode calculations for propagation across a land/sea boundary in earth-ionosphere waveguide, 1833

Frequency distribution (statistics):
 normal and skewed, climatological and other applications, general nomograph, 3762
 χ^2 statistic and goodness of fit test, 11500

Frequency modulation, see Radio frequency modulation.

Frequency response, of forced-flow single-tube boiler with inserts and exist restriction, 5996

Fresh fruit, see Fruit.

Fresh water fishes, see Fish and fisheries.

Freshwater, John F., labor utilization and operating practices in commercial cafeterias, 1510

Fresno, Calif.:
 preschool program in compensatory education, 6894
 solid waste management, final report, systems study, 16373

Friar, John G., practical Spanish grammar for border patrol officers, 787

Friction:
 and contact resistance during sliding in vacuum of some low-resistivity metals lubricated with sputtered molybdenum disulfide films, 13124
 and wear—
 interdisciplinary approach, symposium proceedings, 11428
 9 polymers with various fillers in liquid hydrogen, 6018
 deformation and wear of aluminum, effect of orientation and presence of surface active materials, 4724
 reverted rubber friction, laboratory experiments, 14577
 single-crystal and polycrystalline gold, influence of surface films, 1098
 skin-friction and heat transfer data, summary and correlation, for hypersonic turbulent boundary layer on simple shapes, 11443
 sliding, of copper alloys in vacuum, 1065
 studies of neopentyl polyol ester lubricants, 1267
 thermal stability and friction of disulfides, diselenides and ditellurides of tungsten in vacuum (10^{-8} - 10^{-6} torr), 10110
see also Skin friction.

Friedelson, Ina, fair packaging, synopsis of food packaging and labeling regulations, 5658

Friedly, Philip H., benefit-cost applications in urban renewal, summary of feasibility study, 5750

Friedman, Howard A., ESSA Research Flight Facility, facilities for airborne atmospheric research, 15676

- Friedman, Max P., testimony, hearings, 16888
 Friedman, Robert, experimental measurements of expanding storable-propellant products simulated by combustion of gaseous reactants, 14642
 Friedman, Sam, reaction of coal with steam at high pressures, 2176
 Friedman, Stamford, L., childhood leukemia, pamphlet for parents, 17274
 Friend, Reed E., production, consumption and trade of coarse grains, developments and prospects for selected foreign countries and areas, 10971
 Friesen, Wilfred J., use of photoionization in measuring velocity profile of free-stream flow in Langley pilot model expansion tube, 2241
 Fringe benefits, *see* Employee benefit plans.
 Fritz Peak receiver site, 9722
 Frodigh, Roland J., seasonal change revealed by time-lapse photography, 7655
 Froehle, Robert F., nomination, hearing, 4070
 Frohne, K. H., gasdolor performance prediction for the Cooper sand of Fork Run Pool, Warren and McKean Counties, Pa., 11387
 From a scientific heritage, 10161
 Front Range unit, *see* Missouri River Basin project.
 Frosch, Robert A., nomination, hearing, 5428
 Frost, A., high-performance turboalternator and associated hardware, design of gas bearings, 7231
 Frost, R. M., evaluation of magnetic materials for static inverters, converters, 4664
 Frost, W. T., water supply outlook and Federal-State-private cooperative snow surveys for Oregon, 3588
 Frost, soil, device for measuring, 17028
 Frozen foods:
 frozen foil pack meal components, microbiologic evaluation, 16575
 frozen food warehouses, affiliated, improved handling methods and layout, 5049
 see also Cold storage—*also* names or classes of foods frozen.
 Fruit:
 canned—
 deciduous fruit industry of South Africa, 15747
 foreign agriculture circulars, 2902
 culture, etc., publications, price list, 2405
 deciduous, foreign agriculture circulars, 2902
 deciduous fruit canning in France, 8272
 disinfestation by gamma irradiation dosimetry, tolerance and shelf life extension, annual report, 1606
 dried, foreign agriculture circulars, 2902
 edible—
 forest trees, 12678
 trade and tariff information, summaries, 11739
 effects of vent holes on strength of fiber-board boxes and fruit cooling rate, 6357
 farm labor used, 1964, for fruits and tree nuts, 8991
 fresh—
 fruit and vegetable industry, guidelines for seasonal industry determination, 17437
 market news, weekly summary, 2924
 prices, 1968, Chicago and New York City, 10501
 shipments by States, etc., 9495, 12324
 fresh, unloads—
 eastern cities, by commodities, States, etc., 6807
 for 41 cities, 8098
 midwestern cities, by commodities, States, etc., 6809
 southern cities by commodities, States, etc., 6810
 western cities, by commodities, States, etc., 6808
 Fruit—Continued
 fruit situation, 2927
 home canning, 13588
 home freezing, 13589
 home garden, Southeastern and Central Southern States, 11869
 how to use USDA grades in buying, 6394
 irradiation, 5149
 noncitrus, production, use, value—
 1966-67, by States, 7530
 1967-68, by States, 10424, 11731-732
 processed—
 and related products, regulations governing inspection and certification, 12329
 plants under USDA continuous inspection, list, 15481
 standards for grades, 1761
 protection of rail shipments, 10475
 tree surveys, selected Central States, regional summary, 10428
 see also Citrus fruit.
 Fruit juices, *see* names of fruit juices.
 Fruits, *see* Fruit.
 Frustums, blunted-cone, cone-frustum reentry configuration at Mach 10, laminar heat-transfer transfer distributions, 7299
 Fry, Bernard L., supplement to feasibility of V-STOL concepts for short-haul transport aircraft, 993
 Fry, Emmett B., use of six-degrees-of-freedom motion simulator for VTOL hovering tasks, 14630
 Fryar, Albert J., effect of solubilized methanol on micelle size in nonpolar solvent, 2357
 Fryingpan-Arkansas project.
 general information, 13394
 impact survey report, 4301
 Frysinger, Galen R., power sources for electric cars, 1571
 FSLIC, *see* Federal Savings and Loan Insurance Corporation.
 FTC, *see* Federal Trade Commission.
 Fuel:
 air pollution control research, hearing, 10795
 ASTM Jet A fuel, fouling characteristics of, when heated to 700° F in simulated heat exchanger tube, 2257
 circulating-liquid-metal-fuel reactor, two dimensional high-power kinetics, 1073
 considerations in U.S. supersonic jet transport program, 12387
 control valve for use in airbreathing engine research, dynamic performance analysis, 13112
 cylindrical reactor fuel pin for clad stress caused by fission gasses, analysis, 7306
 electric power, fuels and related equipment, USSR industrial development, translations, 3557
 emulsified fuels—
 characteristics and requirements, final report, 9058
 combustion study, 9056
 evaluation for Missouri pine plantation, released by aerial spraying, 4310
 Federal item identification guides for supply cataloging, supplements, 2847
 hydrocarbon missile fuels, identification methods, military standard, 5497
 liquid-methane fuel in supersonic transports, helium pressurization systems, 17252
 nuclear fuels, reprocessing, symposium, 15075
 publications, price list, 2408
 radioisotope-fueled stirling engine, application to circulatory support systems, 5178
 retail prices and indexes, 3388
 thickened hydrocarbon flame fuels, consistency determined by mobilometer test, military standard, 4137

- Fuel—Continued
 yearbook, 1967—
 departmental edition, 4633
 document edition, 3945
see also Ammonium perchlorate—Liquid
 fuels—Reactor fuels—Turbine fuel.
 Fuel cells, *see* Electric batteries.
 Fuel elements, *see* Reactor fuel elements.
 Fuel emulsions, *see* Emulsions.
 Fuel oil:
 bunker oil—
 and coal laden in United States on ves-
 sels engaged in foreign trade, 6508
 foreign trade reports, 2913
 burner fuel oils, petroleum products sur-
 vey, 16093
 liquid fueling and dispensing facilities,
 design manual, 7367
 1968 diesel fuel oils, 4634
 reactivity of ammonium nitrate-fuel oil
 with pyrite-bearing ores, 975
 Fuels, *see* Fuel—Reactor fuels.
 Fuentes, John F., and wife, relief, 13901
 Fugitives from justice, *see* Crime and crimi-
 nals.
 Fukanaga, Yuka, *see* Awamura, Yuka.
 Fulbright program, *see* Education.
 Fulcher, R., brushless dc torque-driven re-
 action wheel for spacecraft attitude con-
 trol, 13083
 Fulco, Lawrence J., how mechanization of
 harvesting is affecting jobs, 8560
 Fullar, Josefine P. A., relief, 6614
 Full measure of life, 13171
 Fuller, Minnie L., beauty for America, bibli-
 ography, 2272
 Fuller, Minnie N., marketing of livestock,
 meat, and meat products, 10165
 Fuller, Varden, rural manpower policy, 2105
 Fullerton, Howard N., analysis of work stop-
 pages, 7175
 Fulton, Kenneth, postal life, magazine for
 postal employees, 3260
 Fulton, Leonard A., spawning areas and
 abundance of Chinook salmon (*Oncorhyn-
 chus tshawytscha*) in Columbia River
 basin, past and present, 1670
 Fulton County, Ark., community profiles,
 15561
 Fumigants, soil fumigants to control spread
 of *Fomes annosus*, 15770
 Functions (mathematical), *see* Mathematics.
 Fund Raising, voluntary health and welfare
 agencies within Federal service, manual,
 3101
 Funds:
 Federal assistance program joint funding
 simplification hearing, 16819
 Federal day care projects, 7562
 marketing fund, highlights, marketing serv-
 ice programs, 506
 requisition fund codes, MILSTRIP, 4143
 see also Public funds—Revolving funds—
 Welfare funds—*also* names of depart-
 ments, etc., for which funds are used—
 also subjects for which funds are used.
 Fundus tracker, *see* Optical instruments and
 apparatus.
 Funesti, Robert J., BNDD bulletin, 14564
 Fungi:
 fungal flora of submarine environment dur-
 ing prolonged submergence, 921
 initial fungus attack on tropical woods in
 Panamanian estuarine waters, 10248
 simple, quantitative method of assaying
 soil for inhibitory fungi, 17039
 see also names of fungi or fungous dis-
 eases.
 Fungicides:
 act, administration deficiencies, hearings,
 13930
 fungus-inhibitive coatings in jungle en-
 vironment, 10263
 registered, annotated index of their uses
 in U.S., 16528
- Fur:
 Federal item identification guides for sup-
 ply cataloging, supplements, 2849
 industry abroad, 10591
 Fur bearing animals, fur catch in United
 States, 1967, list, price per pelt, etc., 1431
 Fur seals, *see* Seals (animals).
 Furnaces:
 aerodynamic furnace invention, Soviet
 scientific developments, 2081
 classification definitions, 4839
 equipment, Federal item identification
 guides for supply cataloging, supple-
 ments, 2845
 Federal item identification guide, 12358
 simple high-precision copper-point black-
 body and furnace, construction and
 operation, 8672
 Furnishings, *see* Household goods.
 Furniture:
 Federal item identification guides for sup-
 ply cataloging, supplements, 2849
 manufacturing, industry trend, 5197
 trade and tariff information, summaries,
 1466
 see also Office furniture and equipment.
 Furs, *see* Fur.
 Fursar, Robert L., preliminary investigation
 of graphite fluoride as solid lubricant, 7274
 Fused salts, *see* Salts.
 Fuseholders, Federal item identification
 guide, 5519
 Fuselage, typical subsonic transport fuselage
 turbulent boundary layer, experimental
 investigation, 11464
 Fuses (ignition devices):
 bomb and hand grenade fuzes, reasonable-
 ness of prices questioned under three
 negotiated contracts, Army Department,
 GAO report, 12748
 flashbulb spotting round for testing prox-
 imity fuzes, 14763
 fuze, Army, design safety criteria, military
 standard, 12365
 see also Electric fuses.
 Fusion, metal fusion-bonding apparatus,
 classification definitions, 11577
 Future Farmers of America, civil defense
 programs, 15131
 The future is now, 8861
 Future NASA space programs, 14011
 Future role of voluntary health organiza-
 tions (address), 1985
 Futures, *see* Commodity exchanges—Specula-
 tion.
 Fuzes, *see* Fuses (ignition devices).

G

- G.A.O., *see* General Accounting Office.
 G force, *see* Gravity.
 Gabel, Ronald M., advancement of high-tem-
 perature turbine technology for small gas
 turbine engines, 7671
 Gable, John L., joint labor-management pro-
 gram to improve operating practices, work
 rules, and employee compensation pro-
 grams in railroad industry, 4272
 Gabon:
 capsule facts for Armed Forces, 1559
 mineral industry, minerals yearbook chap-
 ter, 5937
 Gadsden, Tenn., railroad accident, report,
 11097
 Gages:
 ball gage to measure flare angles, 7248
 vacuum gage calibration from 10⁻⁸ to 10
 torr, volume-ratio system, evaluation,
 14644
 see also Ionization gages—Orbitron gages—
 Strain gages.
 Gaging stations:
 discharge measurements, 11249
 northwestern California stream-gaging sta-
 tions, variations in low-water stream
 bed elevators, 14373

- Gaging stations—Continued
 Pacific Northwest, average water discharge, 1953-67, and change of storage in certain lakes and reservoirs, 5696
 stage measurement, 1971
 water load of uranium, radium, and gross beta activity at selected stations, 14371
- Gagnon, Raymond O., regional utilization of short-stay hospitals, 11644
- Gagosz, R., optical absorption and fluorescence in fused silica during TRIGA pulse irradiation, 1015
- Gahn, Randall F., determination of oxygen in lithium by vacuum distillation method, 8616
- Gaidick, Harold G., evaluation of indirect viewing system for lifting-body terminal-area navigation and landing tasks, 11488
- Gahner, Thomas G., investigation of opening characteristics of all-flexible parawing, 6001
- Gair, Jacob E., iron resources in Irving Formation, 14329
- Galaxies, computer simulation of cylindrical galaxy, 8648
- Galena, see Blue lead.
- Gallagher, Cornelius E., report of 11th meeting of Canada-United States Interparliamentary Group, 373
- Gallagher, James J., statement on contributions of title 3 to education of handicapped children, 9648
- Gallagher, Joseph J., poet, 14547
- Gallagher, Ursula M., speeches, Nov. 27, 1967, 3865-66
- Gallatin County, Ill., soil survey report, 14874
- Gallawa, R. L., use of surface waves in communicating with high speed vehicles, 12574
- Galloway, Lowell E., geographic labor mobility in United States, 1957-60, 7459
- Gallinules, hunting, possession, transportation, importation, 1969-70, Federal regulations, governing, 13461, 14884
- Gallium arsenide, changes in minority-carrier, lifetime resulting from irradiation with 22- and 40-MeV protons, 6090
- Gallop, Renee L., job market for engineers, scientists, technicians, 14146
- Galloway, Eilene, agreement on rescue of astronauts, return of astronauts and return of objects launched into space, 1729
- Galvanic skin response, relationship of galvanic skin response to emotion-evoking properties of words, 11373
- Galvanomagnetic and thermomagnetic effects in white tin in fields to 3.3 tesla and at temperatures between 1.2 and 4.2 K, 10142
- Galveston Harbor, entrance, model study, hydraulic model, investigation, 5574
- Galveston, Tex., Houston-Galveston Metropolitan, Intrastate Air Quality Control Region, report for consultation, 17354
- Gamatero, Delilah A., relief, 13870
- Gambia, background notes, 8872
- Gambino, Jerome J., effects of rate of delivery of ionizing radiation on LD 50/30 of rodents, 91
- Gamble, Joe D., mathematical model for calculating flight dynamics of general parachute-payload system, 2227
- Game and game birds:
 big-game habitat, 14250
 big game inventory, 1430
 migratory birds, Federal regulations governing hunting, possession, transportation, importation, 13461, 14884
 see also names of birds.
- Game birds, see Game and game birds.
- Game theory:
 all-Union conference, 15907
 model of culture as system of games, USSR study, 15987
- Games:
 differential games, methods of solving, USSR study, 2064
 use of games of chance in gasoline marketing and their impact upon small business—
 hearings, 1712
 appendix, 1713
 report, 6646
- Gamma rays:
 backscatter, analysis technique for direct measurement of density of Martian atmosphere, 16180
 distribution, direct and inverse tables, 1832
 effect of repeated treatment on radioresistance, virulence, and culture characteristics of certain pathogenic bacteria, final report, 7686
 effect on haddock and clams inoculated with *Clostridium botulinum*, type E, 7685, 7712
 effects on quality of stored potatoes for fresh market and processing usage, 5148
 energy and angular distribution of neutrons and gamma rays, Operation Henne, 16619
 gamma dose rates at Rongelap Atoll, 5182
 gamma irradiation, dose rate effect on LD 50/30 in mice exposed to cobalt-60, 3704
 gamma irradiation of fruit and vegetables, dosimetry, tolerance and shelf life extension related to disinfection, annual report, 1606
 gamma probe calibration tests, 14833
 gamma radiation, sterilization of agricultural pests, USSR study, 2057
 indolylalkylamines as radioprotectants, 3713
 nuclear reaction, studying by use of annular lithium-drifted germanium detector, 1001
 production and transport, and civil defense shielding, special sessions, proceedings, 15074
 radiation field in air due to distributed gamma-ray sources in ground, 186
 search for gamma-rays from Crab nebula using digitized spark chamber, 8656
 transport through slab shields, experimental and theoretical studies, 13692
- Gamma spectrometers, see Spectrometers.
- Gammaridea, see Amphipods.
- Gammarus lacustris, see Crustaceans.
- Gangue, flotation characteristics of some beryllium minerals and associated gangue minerals, 976
- Ganiaris, N.P., secondary refrigerant freezing desalting process, operation of 15,000 GPD pilot plant, 9959
- Gannon, Joseph P., scientists, engineers, and physicians from abroad, 10211
- G.A.O., see General Accounting Office.
- Garbage, see Refuse.
- Garcia, Andrew W., oceanographic observations in Kara and eastern Barents Seas, 16697
- Garcia, Jorge P., relief, 4012
- Garcia, Miguel A., relief, 4026
- Garcia, W. J., jr., experimental study of breaking-wave pressures, 1825
- Garden Creek, flood plain information, 12458
- Garden Grove, Calif., area wage survey, 16017
- Gardening, see Gardens.
- Gardens:
 ants in the garden, how to control, 6379
 build civic pride with growing plants, picture story, 5062
 gardening, publications, price list, 4868
 home and garden bulletin, 38-41, 1505-6, 3638-41, 5034-15, 6379-81, 7589-93, 8968, 10481-483, 11867-868, 13587-590, 14993, 16539-542
 home gardens—
 cabbage insect control, 5035
 chrysanthemum growing, 5038

Gardens—Continued
home gardens—continued
fruit, Southeastern and Central Southern States, 11869
iris, growing, 11867
narcissus bulb fly, how to prevent damage, 5046
minigardens for vegetables, 5044
protecting through plant quarantines, 5978
water management, picture story, 5063
Gardiner quadrangle, Mont., geology, 11232
Garland County, Ark., community profile, 15562
Garments, *see* Clothing.
Garnishment, *see* Attachment.
Garrett, L. Bernard, modified method of integral relations approach to blunt-body equilibrium air flow field, including comparisons with inverse solutions, 16182
Garrett, William D., influence of monomolecular surface films on production of condensation nuclei from bubbled sea water, 2351
Garrison Dam, prototype measurements of hydro-power plant transients, North and South Dakota, 4215, 9716
Gartaganis, Arthur J., upturn in Federal blue-collar jobs, 2124
Garvin Basin, Crow Indian Reservation, Mont., soil & range resources inventory, 12822
Gary, Howard L., soil temperatures under forest and grassland cover types in northern New Mexico, 5670
Gary, Ind., Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14310
Gas:
air pollution and regulated natural gas industries, 12616
Alaska-Northwest Canada, economic activities comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
Alaska's economy in case of national economic pause, fiscal strength through oil and gas receipts, 12611
binary, obtaining population inversion of molecules in supersonic stream in laval nozzle, USSR study, 7128
bore, with repulsive and attractive interactions, excitation spectrum, 1072
coal-steam gasification reactions, influence of residence time, temperature, and steam concentration, 13027
crude petroleum, petroleum products, and natural-gas-liquids, monthly statement, 3254
crude products, production and sales, 6318
cycling, effects of pressure, temperature, and type of oil on vaporization of oil, 11392
detonations, large-scale studies, 978
diesel exhaust gas for carbon dioxide, carbon monoxide oxygen, methane, nitrogen oxides, continuous monitoring, 5961
drag reduction due to gas injection through various discrete slots on 3-dimensional wing at Mach 2.01, 13101
dry natural, supply and demand for energy in United States by States and regions, 1960 and 1965, data, 5933
exchange, change of indices of human subject during weightlessness, USSR study, 7139
gasflow performance prediction for the Cooper sand of Fork Run Pool, Warren and McKean Counties, Pa., 11387
gaseous jets in supersonic flow, interaction and penetration, 13047
high velocity stream, nickel-and cobalt-base alloys in, oxidation and thermal fatigue cracking, 14624

Gas—Continued
hot, recirculation and ingestion for jet VTOL aircraft, generalized experimental investigation, 1003
hot-gas side wall temperatures in rocket engines, thermocouple technique for measuring, 13095
hydrogen, pressure vessel problems in M-1 facilities, 5986
injection into lithosphere at National Reactor Testing Station, Idaho Falls, Idaho, 13636
interstate compact to conserve oil and gas, consent of Congress to extend, report, 9429
leases, termination and reinstatement, report, 9434
line emission sources for concentration measurements and photochemistry, 7325
mixtures at high enthalpy levels, empirical stagnation-point heat-transfer relation in, 1058
motion of single bubbles under low gravitational conditions, 16196
natural—
act, regulations under, 3375
liquids, minerals yearbook chapter, 971
liquids, supply and demand for energy in United States by States and regions, 1960 and 1965, data, 10051
mineral industry surveys, quarterly, 3171
producers sales to interstate pipeline companies, 8213
production and processing occupations, employment outlook, 4584
reserves adequate for U.S. needs (address), 793
submodel of PARM (post attack resource management) prototype model, technical report, 5360
transmission and distribution industry, emergency operations guide, 1273
uniform system of accounts prescribed for companies, 4271
natural gas pipeline safety act of 1968—
administration, annual report of Secretary of Transportation, 13505
pipeline safety act, progress in implementing hearing, 16879
oil and gas deposits, prospects of using nuclear explosions in developing, USSR study, 12915
oil and gas industry, economic factors affecting level of domestic petroleum reserves, tax reform studies and proposals, Treasury Department, 12244
pressure in uranium dioxide ceramic fuel elements, estimation of fission-product, 2223
publications, price list, 2408
pyrolysis-gas flow through char layer during ablation, simulation, 16197
quality investigation program, Project Gasbuggy, status report, 7698
real-gas effects in critical flow thru nozzles and thermodynamic properties of nitrogen and helium, 4695, 16149
real-gas effects on hypersonic aerodynamics of blunt bodies, use of tetrafluoromethane to simulate, 11499
residual analysis during vacuum melting, mass spectrometry, 14556
retail prices and indexes, 3388
stability of thin liquid film adjacent to high-speed gas stream, analysis, 4713
supplies of interstate natural gas pipeline companies, 12618
see also Gases—Pipe lines.
Gas appliances, industrial gas cleaning equipment shipments and end use, 11974
Gas bearings, *see* Bearings (machinery).
Gas chromatography, *see* Chromatography.
Gas cooled reactors, *see* Reactors (atomic).
Gas dynamics, *see* Aerodynamics.

- Gas equipment and appliances, *see* Gas appliances.
- Gas exchangers, photosynthetic solar illuminated algae system, 1540
- Gas indicators, combustible, wheatstone bridge type, operation and interpretation of readings, 7167
- Gas pipe lines, *see* Pipe lines.
- Gas ranges, *see* Stoves.
- Gas station attendants, *see* Service-station attendants.
- Gas stoves, *see* Stoves.
- Gas turbines, *see* Turbines.
- Gas utilities, Industry wage survey, 10017
- Gasbuggy experiment (plowshare program) :
 - gas quality investigation program, status report, 7698
 - operational safety aspects, 7700
 - postshot geologic investigations, 7699
- Gaseous-hydrogen pressurant requirements for discharge of liquid hydrogen from 3.96-meter-(13-ft-) diameter spherical tank, 14632
- Gases :
 - acid, and oxides of nitrogen, removal from spacecabin atmospheres, 13049
 - atmospheric, measurements of negative ion production, 16131
 - bubbles and bubble pressures in Antarctic glacier ice, 1575
 - compressed—
 - gas handbook 10098, 14599
 - use and handling, 17145
 - environment, influence on self-adhesion of metals, 1091
 - tension, cause of clad stress, analysis of cylindrical reactor fuel pin for, 7306
 - flammable, slurry explosives for use in potentially flammable gas atmospheres, development, 977
 - gas-surface interactions at cryogenic temperatures, quantum theory of particle-oscillator collision applied to, 2269
 - gaseous positive ions, ionization potentials, appearance potentials, and heats of formation, 10174
 - gaseous reactants, experimental measurements of expanding storable-propellant-products simulated by combustion, 14642
 - gaseous titanium mononitride dissociation energy of, 5999
 - gray radiating gases temperature distributions, simple equations for calculating, 10141
 - hazards, trainer, maritime safety data, 14443
 - high temperature, theoretical thermodynamic properties, 2352
 - industrial, current industrial reports, 3848
 - initial radio-frequency gas heating experiments to simulate thermal environment in nuclear light bulb reactor, 8591
 - inorganic, current industrial reports, 2732, 9134-35
 - mercury in soil gas and air, potential tool in mineral exploration, 4357
 - metal-gas systems use of thermodynamic properties as reduced-pressure standards, 4683
 - multidimensional gas flow through permeable char layers and its effects on ablation, 4752
 - nonsteady one dimensional compressible fluid flow through anisotropic porous media, research report, 3745
 - poisonous, dumping into oceans, international implications, hearings, 9346
 - polar, rotational collision comparison of numbers obtained from different definitions, 13108
 - produced by burning aircraft interior materials, 6038
 - pyrolysis, effect of chemical state on heat-shield mass, 2265
 - rare, resonance lamps, 16230
- Gases—Continued
 - residual gas life of charcoal beds, CO₂ pulse technique for determination, bench-scale studies, 13282
 - shock waves in real gases, 17256
 - supersonic viscous flow near stagnation line of sphere and cylinder, USSR study, 2085
 - transverse gas flow, dynamic response of hydrazine-nitrogen tetroxide combustion, 5992
 - see also* Noble gases Plasma.
- Gasification, *see* Gas.
- Gaskets, Federal item identification guide, 533, 8122, 16914
- Gasoline :
 - marketing, use of games of chance and their impact upon small business—
 - hearings, 1712
 - appendix, 1713
 - report, 6646
 - motor—
 - summer 1968, petroleum products survey, 4635
 - winter 1968-69, petroleum products survey, 13021
 - publications, price list, 2408
 - storage stability, 2170
 - tax reform hearings, income tax deductions, written statements of witnesses, 7984
 - taxes, deductions, tax reform hearings, summary of testimony, 10814
- Gaston, S. C., forest fire, 8311
- Gastroenterology abstracts and citations (periodical), 2933
- Gastropods, *Teichospira*, new Early Ordovician genus, description, 4367
- Gates, Paul W., history of public land law development, 1359
- Gates, Robert F., evaluation of United States Air Force portable airfield lighting system, 15694
- Gateway to citizenship, 8403
- Gateway to Leadership, United States Air Force Officer Training School, 5082
- GATT, *see* General agreement on tariffs and trade.
- Gauges, *see* Orbitron gages.
- Gay, Sue, Joint Commission on Coinage, members, 1649
- Gazetteers, *see* Geographical names.
- Genly, Edgar J. :
 - mineral industry of—
 - Algeria, 17180
 - Ghana, 16083
 - minerals in world economy, 4632
- Gears :
 - advanced gear-forging techniques, evaluation, 11954
 - certification regulations, 16009
 - Navy Lightered (N.L.) equipment, P-series, pontoon gear handbook, 13209
- Gebbie, Katharine B., Wolf-Rayet stars, 2287
- Gebel-Uweinat, *see* Uweinat, Gebel.
- Gedeon, Louis, analysis of cylindrical reactor fuel pin for clad stress caused by fission gases, 7306
- Gedney, Richard T., inviscid flow analysis of 2 parallel slot jets impinging normally on a surface, 2256
- Gedwill, Michael A., evaluation of 3 oxidation-resistant alloy claddings for IN 100 and W1 52 superalloys, 17232
- Geese, hunting, possession, transportation, and/or importation, 1967-70 in United States, etc., Federal regulations governing, 14884
- see also* Canada geese.
- Geiger, Francis M., development digest, 2765
- Geiger counters, *see* Radiometers.
- Geisinger, James G., observation of intraocular pressure changes during FBM patrol as measured by Schiotz tonometry, 11372

- Geisler, Robert R., effects of ultrasonic vibrations on transistors in subassemblies, 3738
- Gelatin, trade and tariff information, summaries, 6316
- Gelechioidae, *see* Stenomidae.
- Gelfan, Lewis D., FAA aviation news, 2813
- Gellis, Sydney S., atlas of mental retardation syndromes, 8836
- Gelopulos, Demosthenes P., computation of regions of constrained stability for nonlinear control systems, 11408
- Gels, estimation of serum proteins by quantitative densitometry after gel electrophoresis, 6421
- Gemini, *see* Spacecraft.
- Gemini project, *see* Project Gemini (man-in-space program).
- Gems, *see* Precious stones.
- Genealogy, records in National Archives, 14654
- General Accounting Office:
- additional supergrade positions, establish, hearings, 12318
 - annual report—
 - departmental edition, 14301
 - document edition, 13850
 - appropriations, 1970, legislative hearings, 13917, 15415
 - report, 15271, 16862
- Assistant Comptroller General, nomination of Robert F. Keller, hearing, 15457
- Comptroller General decisions—
- B-(series), 2686
 - digests, 2769
 - July 1, 1967-June 30, 1968, bound volume, 11199
 - monthly, 2685
 - scope line index, 5650
- findings and recommendations for improving Government operations, 1941
- compilation, 1968, 3965
- GAO review (periodical), 2932
- needs graduates in business administration, 725
- policy and procedures manual for guidance of Federal agencies, 2934, 7022-23, 14230
- publications, list, 9871, 14303
- purposes, functions, services, 8325
- review of boards of contract appeals decisions, opinion of Attorney General, 7161
- transportation manual for guidance of Federal agencies, transmittal sheet, 5681, 7022-23
- General agreement on tariffs and trade:
- basic instruments and selected documents text, and 1969 contracting parties, 10413
- international anti-dumping code, implementation, agreement, 4970
- Kennedy Round—
- air conditioning and refrigeration equipment, special report, 2045
 - materials handling equipment, special report, 8484
 - medical and X-ray equipment, special report, 5800
 - photographic equipment, special report, 8485
 - rates of duty negotiated, customs tariff of European communities, English translation, 11679
 - textile machinery, special report, 5801
 - tariff concessions, protocol and schedules, agreement with Spain, 8884-85, 13478
 - trade agreements program and GATT, 1967, report, 10280
- General Assembly of United Nations, *see* United Nations.
- General Counsel, Agriculture Dept.:
- appropriations, 1970—
 - hearings, 7945
 - reports, 9311, 12254
- General Counsel of Transportation Department, report for Coast Guard, 5475
- General practitioners (medicine), *see* Physicians.
- General Services Administration:
- Administrator, nomination of Robert L. Kunzig, hearing, 6785
 - annual report, 5695
 - appropriations, 1970—
 - hearings, 9332, 12285
 - basic laws and authorities, compilation, 12752
 - building operational review guide, handbook, 14776
 - excess property, opportunity for savings by increasing transfers among Federal agencies, GAO report, 7032
 - forms catalog, 7038
 - parking facilities, improvement in management, GAO report, 11216
 - press releases, 3292
 - procuring and stockpiling jewel bearings, GAO report, 8331
 - small freight shipments, opportunity for savings from consolidation system, GAO report, 11220
 - survey of operations, hearings, 402
 - use of second-phase method of contracting, method that does not encourage maximum price competition, GAO report, 1954
- General von Steuben, Memorial Day: designate, law, 16736
- report, 15385
- Generation of ideal coordinate systems for analysis of optimal trajectories, 1037
- Generators:
- linear crossed-field generators and accelerators, circulating currents, 10147
 - see also* names or types of generators.
- Genesee County, N.Y., soil survey report, 10382
- Genetics, chickens, estimates of heritabilities and of genetic and phenotypic correlations for traits, summary, 14986
- Gennari, J. J., controlled destructive testing of pressure vessels, 13286
- Gentile, Columbus R.
- mineral industry of—
 - Netherlands, 17186
 - other European countries, 5943
 - United Kingdom, 5950
- Geochemical prospecting, *see* Geochemistry.
- Geochemistry:
- atomic-absorption methods of analysis useful in geochemical exploration, 17071
 - contributions to geochemistry (series), 9885-86
 - geochemical and geophysical anomalies in western part of Sheep Creek Range, Lander County, Nev., 1959
 - geochemical evidence for possible concealed mineral deposits near Monticello Box, northern Sierra Cuchillo, Socorro County, N. Mex., 740
 - geochemical exploration for gold, interpreting pan-concentrate analyses of stream sediments, 11235
 - geochemistry of water (series), 14371, 15814
 - Lewis and Clark Range, southeastern part, Mont., 731
 - Virginia City quadrangle, Nev., studies, 5707
- Geodesy:
- Alaska research studies and interpretive results, 6528
 - cartography, selections, USSR study, 12931
 - marine, satellite applications, 4674
 - mathematical geodesy, 15672
 - space geodesy altimetry study, 7234
- Geodetic instruments, microwave modulated, dual optical wavelength geodetic, distance-measuring instrument, development, 12572

Geodetic satellites, *see* Satellites.
 Geographers, employment outlook, 4552
 Geographic labor mobility in United States, 7459
 Geographic Names Board:
 decision list, 2751
 gazetteers, 1955-56, 12753, 14326-327, 17069
 Geographic note, GE series, 2936
 Geographical names:
 Antarctica, official name decisions, gazetteer, 17069
 decision list, 2751
 gazetteers, 1955-56, 12753, 14326-327, 17069
 Mozambique, standard place names, 14327
 Panama and Canal Zone, standard place names, 12753
 Spanish Sahara, standard place names, 14326
 Geography:
 geographic area coding manual, cross reference section for 1967 censuses of business, manufactures, etc., 221
 geographic note, GE series, 2936
 3 graphical regions of United States, 2
 GHz electromagnetic wave propagation over optical paths, 17205
 Geography and History, Pan American Institute of, *see* Pan American Institute of Geography and History.
 Geography and Map Division, Library of Congress, new location, 16036
 Geohydrology, *see* Hydrogeology.
 Geological Survey:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 bulletins, 728-735, 1957-58, 4347-54A, 5697-5705, 7041-47, 8340-41, 9885-90, 11230-232, 12759, 14328-335, 15792-794, 17070-71
 California well data and water levels, references, 14356
 circulars, 736-743, 1959-62, 4355-58, 5706-12, 7048, 9891-94, 11233-237, 12760, 14337
 exploration assistance program, 8342
 heavy metals program, 1968 progress report, 11237
 field studies, 9892
 intern-training opportunities provided for scientists and technicians from other countries, 14341
 library, description, etc., 8363
 map-pricing practices, opportunity to increase revenues through changes, GAO report, 14322
 new reports about water in Pacific Northwest, 17072
 press releases, 3293
 professional papers, 745-752, 1964-70, 4361-67, 5713-23, 7050-57, 8351-54, 9902-4, 11243-248, 12779-786, 14345-352, 15802-807
 publications, lists, 3192, 9905
 reports and maps, released only in open files, 9891
 research, 752, 1968
 chap. B, 7057
 chap. C, 14352
 stratigraphic nomenclature, changes, 7043
 tracer study, Amargosa Desert, Nye County, Nev., exploratory drilling, tracer well construction and testing, and preliminary findings, 14360
 water supply papers, 756, 1974-76, 4370-72, 5726-28, 7058-64, 8382-83, 9932-36, 11251-254, 12796-12802, 14371-377, 15814-818, 17074
 Geologists, employment outlook, 4501
 Geology:
 Alder Creek mining district, Custer County, Idaho, 729

Geology—Continued
 Antonio dos Santos, Gongo Soco, and Conceicao do Rio Acima quadrangles, Minas Gerais, Brazil, 5713
 Barao de Cocais area, Minas Gerais, Brazil, 745
 Basin and Range province, trend-surface analysis and some geomorphic implications, 7051
 Bear Peak, area, Dona Ana County, N. Mex., 14331
 Coal Hill, Hartman, and Clarksville quadrangles, Johnson County and vicinity, Ark., 5717
 Comstock-Indian Wells area, Val Verde, Terrell, and Brewster Counties, Tex., 4364
 contributions to economic geology (series), 729-731, 735, 1957, 7041, 7056, 14332, 14335, 15792-793
 contributions to general geology (series), 734, 4347, 4351, 5699, 9887-88
 De Baca County, N. Mex., 9907
 deposits of Lake George (or Badger Flats), beryllium area, Park and Jefferson Counties, Colo., 12781
 diagenesis of tuffs in Barstow formation, Mud Hills, San Bernardino County, Calif., 14351
 diagenetic carbonates in marine miocene formations of California and Oregon, isotopic composition, 11246
 economic, of platinum metals, 12785
 Empire quadrangle, Grand, Gilpin, and Clear Creek Counties, Colo., 14349
 evaporite, of Fifth ore zone, Carlsbad district, southeastern New Mexico, 730
 Fort Hill quadrangle, Lincoln County, Wyo., 9902
 Gardiner area, Park County, Mont., 11232
 general and engineering, of northern part of Pueblo, Colo., 14330
 geologic features in areas outside the United States, descriptive catalog of selected aerial photographs, 7052
 geologic investigations in Slick Rock district, San Miguel and Dolores Counties, Colo. (series), 747
 geologic mapping, use of airborne measurements of terrestrial radioactivity as aid to, 1965
 geologic maps of the moon, 4360
 geologic materials, direct-current arc and alternating-current spark emission spectrographic field methods for semiquantitative analysis, 11234
 geologic problems, graphical solutions, 14880
 geologic story of Mount Rainier, 14334
 Geological Survey research, 1969—
 chap. B, 7057
 chap. C, 14352
 geology of—
 Arkansas Valley Coal Field (series), 4362-63
 Midway area, Hawaiian Islands (series), 14353, 15807
 Greenwood quadrangle, Arkansas-Oklahoma, 4362
 Gulf of Mexico, selected bibliography, 13249
 hazardous geologic areas, Federal involvement—
 hearings, 10787
 report, 15244
 Hot Sulphur Springs quadrangle, Grand County, Colo., 748
 John Day Country, Grant County, Oreg., geologic setting, 12771
 Lava Beds National Monument and vicinity, Calif. geologic and hydrologic reconnaissance, 8348
 Lewis and Clark Range, southeastern part, Mont., 731

Geology—Continued

- lower Great Miami River Valley, Ohio, 1969
- magnetite deposits in Okanogan County, Wash., 735
- Magruder Mountain area, Nev.-Calif., 4317
- Midway area, Hawaiian Islands (series), 14353
- Minas Gerais, Brazil (series), 745, 5713
- Mockingbird Gap quadrangle, Lincoln and Socorro Counties, N. Mex., 749
- North American—
abstracts, 2546
bibliography, 5698
- North Park, Colo., southwestern and vicinity, 1958
- Oregon Buttes area, Sweetwater, Sublette, and Fremont Counties, southwestern Wyoming, 4348
- Pecos National Monument, N. Mex., its geologic setting, 9887
- postshot geologic investigations, Project Gasbuggy, 7699
- proposed powerites at Deer Lake and Kasnyku Lake, Baranof Island, southeastern Alaska, 9884
- quaternary, of Grand and Battlement Mesas area, Colo., 8354
- reconnaissance of Eagle A-1 and A-2 quadrangles, Alaska, 9888
- San Cristóbal district, Villa Martin Province, Potosí, Bolivia, 7042
- Sandy Hook quadrangle, Monmouth County, N.J., 15794
- Seranton and New Blaine quadrangles, Logan and Johnson Counties, Ark., 4363
- seismic intensity data used to predict effects of earthquakes and underground nuclear explosions in various geologic settings, 14333
- shorter contributions to general geology (series), 749, 4364-65, 5722, 9902, 11246, 15804-805
- studies in part of Virginia City quadrangle, Nev., 5707
- systematic jointing in western part of anthracite region of eastern Pennsylvania, 4351
- Tepee Creek quadrangle, Mont.-Wyo., 12782
- terrestrial impact structures, bibliography, 9890
- theoretical papers in hydrologic and geomorphic sciences (series), 7051
- Tierra Redonda Mountain and Bradley quadrangles, Monterey and San Luis Obispo Counties, Calif., 732
- Uinta Mountains, geologic story, 8340
- uranium deposits in Dripping Spring Quartzite, Gila County, Ariz., 5720
- water resources of windward Oahu, Hawaii, 7064
- west-central part of Southern Anthracite field and adjoining areas, Pennsylvania, 7054
- see also Cenozoic era—Chinle formation—Engineering geology—Niobrara formation—Pennsylvanian period—Triassic period.

Geomagnetic field:

- induction loop antennas for variation measurements, 14164
- parametric angles of trajectory-determined field line intersects predicting location of artificial auroras, 13074

Geomagnetism, see Terrestrial magnetism.

Geometric properties of prestressed segmented spherical shell, 1032

Geometry:

- aircrew station geometry for military aircraft, military standard, 14107
- geometrical image aberrations in single- and double-mirror systems, mathematical determination, 1052

Geometry—Continued

- plasma confined in open-ended geometry, international conference, proceedings, 1598
- plug and shroud variables, effect on plug-nozzle performance at transonic speeds, 7275
- sailwing of aspect ratio 5.9, aerodynamic characteristics, full-scale investigation, 6007

Geomorphology, see Geology—Physical geography.

Geophilomorpha, see Centipedes.

Geophysical Sciences Library, Soviet literature accessions, guides, 5581-82, 12575

Geophysicists, employment outlook, 4501

Geophysics:

- abbreviated calendar record, 1966-67 activity and events, 4225
- American Meteorological Society abstracts, 3203
- geochemical and geophysical anomalies in western part of Sheep Creek Range, Lander County, Nev., 1959
- geophysical abstracts, 1937
- geophysical field investigations (series), 746, 1905
- geophysical study in Grand Teton National Park and vicinity, Teton County, Wyo., 746
- geophysics and space data bulletin, 2938
- Gulf of Mexico, selected bibliography, 13249
- international geophysical calendars, 1957-69, solar and geophysical information, 6923
- Lewis and Clark Range, southeastern part, Mont., 731
- preshot geophysical studies of Cabriole nuclear crater site, 16626
- solar-geophysical data (periodical), 3444
- Soviet bloc research (periodical), 3446
- studies in part of Virginia City quadrangle, Nev., 5707
- survey and comparative analysis of current geophysical models, 10114
- upper atmosphere geophysics, report UAG series, 4225, 6923
- World Data Center A., activities, etc., 1843
- Geopotential:
- atmosphere's geopotential height distribution from satellite radiation measurements, statistical estimation, 6921
 - vinti dynamical problem and geopotential, 8655
- George, D'Arcy R., improved Elhex process for eluting uranium from ion exchange resins, 4648
- George, Lawrence C., vapor pressure of metal halides, 16105
- George, Mario M., reliability evaluation of mechanical stability augmentation system for helicopters, 11956
- George, Samuel F., detection of nonfluctuating targets in log-normal clutter, 4833
- George, T. M., acoustic-gravity waves in atmosphere, symposium proceedings, 9718
- George, Tommy A., water supply summary and outlook for Oregon and Federal-State-private cooperative snow surveys, 17392
- George, Lake, Alaska, the breakout, 8338
- George Washington Birthplace National Monument, general information, 16272
- George Washington Memorial Parkway, Mount Vernon section, general information, 6076
- George Washington National Forest, general information, 12681
- George Washington University, Students For a Democratic Society, hearings, 15322
- Georgetown, D.C., see District of Columbia.
- Georgetown University, D.C., Students For a Democratic Society, activities, investigation, hearings, 13933

Georgia:

- Agricultural Stabilization and Conservation Service—
 - activity summary, congressional districts, 13561
 - annual reports, 11818-819
 - Appalachian region, raw materials for lightweight aggregate, 5963
 - broiler farms, commercial, costs and returns, 15621
 - census of business, 1967, retail trade, area statistics, 10596
 - climate, 14159
 - climatological data, 2662
 - costal, length relations of some marine fishes, 5304
 - dealers in trout and pondfishes, list, 10386
 - education superintendent for Bureau of Refugees, Freedmen, and Abandoned lands, records 1865-1870, pamphlet to accompany microcopy, 16221
 - electric rate book, 4264, 16995
 - Federal outlays, report of Federal Government's impact by State and county, 9543, 9593
 - forestry on modern farm, 11744
 - landings, fish and shellfish, 2939
 - lobolly pines in plantations on abandoned fields, volume tables and point-sampling factors, 8313
 - middle district, nomination of William L. Martin, jr., as U.S. Marshal, hearing, 10910
 - mineral industry, minerals yearbook chapter, 952
 - pollution of interstate waters of Coosa River and its tributaries, conference proceedings, 662
 - precipitation data, hourly, 2962
 - shortleaf pines in plantations on abandoned fields, volume tables and point-sampling factors, 8317
 - southern Blue Ridge area, soil survey interpretations, 17391
 - uranium reconnaissance, preliminary, 13712
- Georgia Radium Management Project, general information, 11613
- Georgia, University of, *see* University of Georgia.
- Georgiades, Demetroula, relief, 6622
- Georgian Soviet Socialist Republic, scientific achievements lauded, 17128
- GEOS (geodetic satellites), *see* Satellites.
- Gerbils, resistance to acute cobalt-60 irradiation, 10533
- Gerdel, Robert W., characteristics of cold regions, 15652
- Germanium, detector, annular lithium-drifted for studying nuclear reaction gamma-rays, 1001
- Germany:
- cost evaluation for movement of household goods to United States from Germany, Defense Dept., GAO report, 1942
 - East, *see*, below, Soviet zone.
- Germany:
- economic trends and their implications for United States, 15880
- Federal Republic—
- background notes, 10404
 - economic statistics, handbook, 2951
 - education, financing programs, agreement, 11726
 - foreign economic trends and their implications for United States, 5798
 - mineral industry, minerals yearbook chapter, 2140
 - plant quarantine import requirements, 3629
 - Wuergrass nuclear power plant site, design and safety, informational report, 5136
- German air force, 1919-39—
- command and leadership, 13637
 - development, 13636

Germany— Continued

- photographic products industry and market, 15085
- Soviet Zone,
- background notes, 2484
 - capsule facts for Armed Forces, 7643
 - general and municipal hygiene, 1966-67, as reflected in East German journal of hygiene, 7125
 - mineral industry, minerals yearbook chapter, 950, 13015
 - West, *see* above, Federal Republic.
- Germicides, *see* Antiseptics.
- Germination:
- acorn moisture content critical for cherry-bark oak germination, 4309
 - winterfat seeds, affected by age and year of collection, 1920
- Geronimo (U.S.S.):
- transfer to China, agreement, 7505
- Gerontology, international directory, 10192
- Gerontology Research Center, general information, 14688
- Gershberg, D., high-performance light-weight electrodes for hydrogen-oxygen fuel cells, 2195
- Gertler, Diane B.:
- directory, public elementary and secondary schools in large school districts, with enrollment and instructional staff, by race, fall 1967, 15629
 - primary enrollment of children under 6, 4181
- Gertsma, Lawrence W., design and fabrication of counterflow double-containment tantalum-stainless steel mercury boiler, 8617
- Gettysburg National Military Park, general information, 4801
- Gettysburg, Pa., Eisenhower National Historic Site, development, reports, 15264, 15366
- Geymayer, H. G., use of epoxy and polyester resin concrete in tensile zone of composite concrete beams, 6910
- GP series, 247, 1622-23, 9161, 10609, 12016-17, 16669
- Ghana:
- agricultural commodities, agreement, 7503, 13487
 - agricultural economy in brief, 6857
 - capsule facts for Armed Forces, 3723
 - economic trends and their implications for United States, 2039, 11306
 - guide to official publications, 1872-1968, 14482
 - mineral industry, minerals yearbook chapter, 16083
- Ghetti, Joseph L., costs of storing and handling grain in commercial elevators, 1967-68 and 1969-70 projections, 5526
- Ghettsos, *see* Race problems.
- Giacaglia, Giorgio E. O., semi-analytic theory for motion of lunar satellite, 11440
- Giachino, Fred E., air reservist, 2575
- Giant sequoias, *see* Sequoia.
- Gianutsos, Peter E., relief, 13903
- Gibbs, Clarence J., jr., bibliography of scrapie, 10189
- Gibson, A. E.:
- addresses, etc.—
 - Apr. 11, 1969, 8569
 - May 15, 1969, 8570
 - May 22, 1969, 10042
 - June 4, 1969, 10044
 - June 20, 1969, 10045
 - June 24, 1969, 11365
 - July 7, 1969, 11366
 - July 23, 1969, 12994
 - Aug. 18, 1969, 12995
 - Sept. 10, 1969, 14487
 - Sept. 22, 1969, 14488
 - Oct. 10, 1969, 17164
 - Oct. 15, 1969, 16049
 - nomination, hearings, 9452

- Gibson, Sharon K., franchise company data, equal opportunity in business, 13727
- Gierhart, G. D., transmission loss atlas for select aeronautical service bands from 0.125 to 15.5 GHz, 12567
- Gifford Pinchot National Forest, Mt. St. Helens-Spirit Lake area, general information, 14271
- Gift tax, *see* Inheritance and transfer tax.
- Gifted children, *see* Children.
- Gifts:
- donated property, valuation, tax information, 5780
 - expenses, rules for deducting from income tax, 2020
 - holiday gift list for readers, 1323
- Gil, William N., laminar dispersion in diverging channels and in concentric annuli, 9975
- Gila County, Ariz., geology of uranium deposits in Dripping Spring (quartzite), 5720
- Gila River, water supply outlook and snow surveys, 5583
- Gila River Indian Reservation:
- community action program administered by Gila River Indian Community, effectiveness and administration, GAO report, 11206
 - Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14311
 - work experience and training project, administration and effectiveness, GAO report, 11202
- Gilbert, Carl J., nomination, hearing, 9460, 12294
- Gilbert Islands, ornithology, 10361
- Gilbreath, William P., influence of gaseous environment on self-adhesion of metals, 1091
- Gill, Kenneth A., jr., cryotherapy in treatment of snake envenomation, 14507
- Gill, Thomas G., wood used in manufacturing industries, 1965, 16558
- Gill, William N., mass transfer in laminar and turbulent hyperfiltration systems, 7085
- Gillespie, Glenn A., econometric model for predicting water-oriented outdoor recreation demand, 12409
- Gilliland, Whitney:
- remarks—
 - May 19, 1969, 9175
 - Oct. 9, 1969, 15129
 - Oct. 22, 1969, 16675
- Gilmer County, W. Va., coal, preparation characteristics, 4638
- Gilpin County, Colo., Empire quadrangle, geology, 14549
- Gilreath, Melvin C.:
- radiofrequency transmission characteristics—
 - of candidate ablation materials for planetary-entry-vehicle heat shields, 2235
 - of several ablation materials, 1102
- Gingass, John S., and wife, relief, 16763
- Gingivitis, preventive treatment procedures, results after 2 years, 3706
- Ginnie Mae, *see* Government National Mortgage Association.
- Ginning, *see* Cotton gins and ginning.
- Gin-stand research at Stoneville, Miss., 1956-66, 15007
- Glard, David H., list of intercepted plant pests, 11794
- Girders, ship hull girders, feasibility study of model tests, 11658
- Girl Scouts of United States of America, annual report, 13857
- Girls:
- expanding opportunity, their special counseling needs, 14969
 - job horizons in District of Columbia, conference report, 17443
 - job training suggestions, 2544
- Graytys, James, requirements statements for selected data acquisition equipment, 15673
- Girty, G. H., revision of Girty's invertebrate fossils from Fayetteville shale (Mississippian) of Arkansas and Oklahoma, 15803
- Giunta, John L., conservative management of mandibular incisors with large area of bone involvement, 16062
- Giza, Richard, DHEW obligations to medical schools, 1189
- Glacial period:
- catastrophic late Pleistocene Bonneville flood in Snake River Plain, Idaho, 750
 - iron resources in Irving Formation, 14329
- Glacier Bay National Monument:
- general information, 14702
 - iceberg (poster), 6090
- Glacier Peak, North Cascades, Wash., batholiths and volcanoes, intrusion and eruption of late Cenozoic magmas, 14347
- Glaciers:
- bubbles and bubble pressures in Antarctic glacier ice, 1575
 - buoyancy stabilized hot point drill for studies, 135
 - electrolytic conductivity of snow and glacier ice from Antarctica and Greenland, 1574
- Gladiolus:
- gladioli, production and sales, etc., 10500
 - production and sales, etc., 7529
- Glahn, Harry R., operational subsynoptic advection model, 16972
- Glands, selective avian salt glands, salt transport mechanisms, 9970
- Glaser, Peter E., space technology transfer and developing nations, 1031
- Glaser, Rudolf F., longitudinal mass-spring modeling of launch vehicles, 14620
- Glasgow, Leslie L., nomination, hearings, 8076
- Glasgow, Del., floods, how to avoid damage, 12500
- Glass:
- adsorption of carbon-14-labeled stearic acid on soda-lime glass, 13301
 - fibrous, 1968, current industrial reports, 9132
 - flat, current industrial reports, 2733, 9133
 - glass-epoxy filament-wound cylinders, mechanical behavior, under various loads, 7256
 - manufacturing, 7732
 - porous glass membranes for reverse osmosis, research, 2007
 - production of temperatures below 1°K by adiabatic demagnetization of cerium-barium metaphosphate (CBP) glass, 1258
 - silver phosphate glass microdosimeters, effects of laboratory reprocessing, 3703
 - tube apparatus for large-scale culture of chlorella, USSR study, 833
 - void content in glass-filament-wound composition, nondestructive testing, 7382
 - see also* Glass fibers.
- Glass-fabric-polyester laminates, *see* Laminated materials.
- Glass fibers:
- pristine E-glass fiber interaction with water vapor, 10256
 - reinforced plastic laminates, capacitive measurement system for nondestructive testing, 13671
 - woven and nonwoven S-glass fibers, 11953
- Glasses, *see* Spectacles.
- Glasstone, Samuel, books of Mars, 4694.
- Glassware:
- pressed and blown, trade and tariff information, summaries, 1462
 - see also* names of articles manufactured from glass.
- Glaucoma, screening in your health unit, 16343
- Glauconite, studies, 12783

INDEX 1969

- Glawe, George E., small combination sensing probe for measurement of temperature, pressure and flow direction, 1062
- Glaziers, employment outlook, 4486
- Glen Canyon Dam :
designate as Dwight D. Eisenhower Dam, report, 10870
general information, 13395
structural model tests of arch dams, 11652
- Glen Canyon National Recreation Area, general information, 13395
- Glenn, William G., telemetric automated microbial identification system (TAMISUO and subsystems), 80
- Glennon, John P., American foreign policy, 1966, current documents, 6259
- Global logistics and strategy, 1618
- Glomerulonephritis, selected references, 11632
- Glossaries :
cable logging terms, 8280
emergency health services, 14788
environmental terms (terrestrial), military standard, 6843
fabric imperfections, Federal standard, 659
planning, programming, and budgeting systems analysis, 8326
technical terms of meat industry, 6816
- Glossbrenner, Guy F., Commerce Department publications, catalog and index, 1968 supplement, 13810
- Glove boxes :
glovebox fire safety application—
fire resistant glove materials, evaluation, 13720
mechanical vacuum pumps, control and reduction of oil mists, 13719
window materials, 6474
- Gloves :
all-rubber, except surgical, visual inspection guide, military standard, 12363
fabric and leather industry in Puerto Rico, data pertinent to review of minimum wage rates, 13520
- Glucose :
blood pressure relating to blood glucose, 17359
tolerance in dogs exposed to altitude and drug administration—
amphetamines, 95
diphenhydramine, 94
meperidine, 96
- Glue :
glue-sniffing, big trouble in a tube, 7375
trade and tariff information, summaries, 6316
wastes disposal, plywood plant, progress report, 6988
woodworking glues, selection and properties, 4303
see also Adhesives.
- Glue-sniffing, *see* Glue.
- Glued joints, *see* Joints.
- Gluing fire-retardant-treated Douglas-fir and western hemlock, 4304
- Gnyas, Richard E., calculation of fuel loss from vented nuclear fuel elements for space power reactors, 1128
- Glycol, *see* Polyethylene glycol.
- Glycoproteins, specific glucocorticoid-mediated glycoprotein (alpha-2-GP), response to irradiation injury, 9007
- Go Government, 282, 289
- Goddard Range and Range Rate S-Band Tracking System, Rosman, N.C., evaluation by intercomparison with GEOS I long-arc orbital solutions, 11437
- Goddard Research and Engineering Management Exercise, simulation, evaluation, 4685
- Goddard Space Flight Center, significant accomplishments in science, 1968, proceedings of symposium, 14598
- Godshall, W.D., acoustical absorption properties of wood-base panel materials, 15761
- Goetz, Robert C., hypersonic flutter analysis using measured static aerodynamic derivatives, and comparison with experiment, 10144
- Goforth, Tom T., seismic effects of sonic booms, 1000
- Goggin, Daniel T., international boundaries, preliminary inventory of records, 1171
- Goggles, *see* Spectacles.
- Gold :
adhesion to copper and copper aluminum alloys, LEED study, 13126
anomalous concentrations in Mill Canyon area, Cortez Quadrangle, Eureka and Lander Counties, Nev., 743
Cripple Creek district, Colo., distribution, 14350
determination, in geologic materials by neutron-activation analysis using fire assay for radio-chemical separations, 739
distribution—
McCarthy B-4 and B-5 quadrangles, Alaska, 742
sea floor off Klamath Mountains, Calif., 1961
Slana area, eastern Alaska Range, Alaska, 11236
gold and silver content manufactured articles, misrepresentation of quality, provide civil remedy—
hearing, 10891
report, 9424
gold-bearing jasperoid in Drum Mountains, Juab and Millard counties, Utah, 9893
gold in igneous, sedimentary and metamorphic rocks, 5709
gold in minerals and composition of native gold, 5710
gold-quartz standard GQS-1, establishment, 1960
gold sphere transmission experiments at 24-ke V neutron energy using spin-dependent S-wave statistics, analysis, 8651
in meteorites and in earth's crust, 741
investigations in Precambrian elastic and pelitic rocks, southwestern Colorado and northern New Mexico, 14332
leaching, experimental, from mine waste, 7220
mine production, monthly, 2940
mineral industry surveys, monthly report, 2941
minerals yearbook chapter, 937
potential for lode deposits in Livengood Gold Placer district, east-central Alaska, 11233
principal gold-producing districts United States, 751
production and consumption, 1967, report, 13032
recovering from graphitic schist from Talapoosa County, Ala., 7221
regulations, 11762
resources, systems approach to recovering, Jefferson County, Mont., 16104
sample size and meaningful gold analysis, 7056
single-crystal and polycrystalline, influence of surface films on friction and deformation, 1098
standards, next steps in international monetary reform, hearings, 345
United States movements, 6509
monthly, 2921
- Gold (money) :
Domestic Gold and Silver Operations Office, procedures and descriptions of forms, 13512
foreign gold and exchange reserves, 1968 review, 8162
Mint Bureau, report, 13032
- Gold pan, geochemical exploration, interpreting pan-concentrate analyses of stream sediments, 11235
- Goldberg, Morton F., symposium on treatment of diabetic retinopathy, 11639

- Goldblith, S. A., effect of gamma rays on haddock and clams inoculated with *Clostridium botulinum*, type E., 7685, 7712
- Golden Eagle Program, *see* Operation Golden Eagle.
- Golden nematode, *see* Nematoid worms.
- Golden Spike, 8725
- Golden Spike National Historic Site, general information, 6077
- Goldman, K., performance evaluation of heat-exchangers for sodium-cooled reactors, 13721
- Goldman, Michael H., basic data on economy of Romania, 3897
- Goldstein, Harold T., correlation between United States and international standard industrial classifications, a comparison with particular application to Bureau of Census, 12021
- Goldstein, Marvin E.:
injection of attached inviscid jet at oblique angle to moving stream, 17246
injection of inviscid separated jet at oblique angle to moving stream, 16194
two dimensional inviscid jet flow from two nozzles at angle to plane surface, 6012
- Goldston, Stephen E.:
mental health considerations in public health, 14690
proceedings of National Conference on Mental Health in Public Health Training, 10326
- Gomes, Mario S., relief, 6613, 10836, 12094
- Gomez, Manuel, application of statistical response surface fitting in predicting lignite properties, 5959
- Gomez, Miguel A., relief, 4015
- Gon Ming Loo, *see* Chinn, Yau Ming.
- Gong Sing Hom, *see* Hom, Gong Sing.
- Congo Socco quadrangle, Brazil, geology and ore deposits, 5713
- Gonvil, Lafleche, or heirs, relief, 9393
- Gonvil, Marie, or heirs, relief, 9393
- Gonzales, Hector E., relief, 8006
- Gonzalez, D. D., stage-discharge characteristics of weir in sand channel stream, 12799
- Gonzales, Jose R. Fernandez, *see* Fernandez-Gonzalez, Jose R.
- Good, Paul, cycle to nowhere, 270
- Good, Philip C.:
extraction of aluminum and fluorine from leached potlining residues, 10065
recovery of hydrofluoric acid from waste fluosilicic acid, preliminary studies, 4637
- Good, Terry W., Alaska file of Secretary of Treasury, pamphlet, 1165
- Good foods coloring book, 8988
- Good housekeeping for successful safety program, 14446
- Goode, R. J., fracture toughness characterization etc., to failure-safe design for structural titanium alloys, 7383
- Goodenough-Harris Test, *see* Mental tests.
- Goodman, John M.:
amplitude scintillation at Randle Cliff derived from ATS-1 transmissions, 10261
electron-content variations and change rates obtained during spring and summer of 1967 by measurement of Faraday rotation of 137-MHz radio waves transmitted from ATS-1, 11566
- Goodnight Arroyo:
flood plain information, 9675
floods in Pueblo, Colo., how to avoid damage, 9708
- Goodrich, Jerry, driver, traffic safety magazine of Air Force, 2774
- Goodsell, Wylie D.:
commercial broiler farms, costs and returns, Georgia, 5621
commercial egg-producing farms, costs and returns, New Jersey, 15619
- Goodsell, Wylie D.—Continued
farm costs and returns, commercial farms, by type, size and location, 16536
- Goodwin, Thomas C., Air Force scientific research bibliography, 3674
- Goofballs, *see* Barbiturates.
- Goose Bay, Newfoundland, defense, release of certain lands from leased areas, agreement with Canada, 7509
- Goraunon, R. B., application of radioisotope-fueled stirling engine to circulatory support systems, final report, 5178
- Gordon, Donald T., tree shadow patterns and illumination measurements within clearcut strips and irregular openings in true fir forest, 4320
- Gordon, Mackenzie, jr.:
early Pennsylvania ammonoids from southern Nevada, 7055
early Reticuloceras zone fauna from Hale formation in northwestern Arkansas, 1970
revision of some of Girty's invertebrate fossils from Fayetteville shale (Mississippian) of Arkansas and Oklahoma, 15803
- Gordon, R., jr., rare gas resonance lamps, 6230
- Gordon, Tavia, serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease, 16255
- Goree, William S., superconducting devices, literature survey, etc., 2290
- Gorgas Memorial Laboratory:
annual report, 5325
financial statements, 5325
- Goring, Sylvia M.:
census of U.S. civil aircraft as of Dec. 31, 1967, 5586
FAA statistical handbook of aviation, 11039
- Goshen, N.J., floods, how to avoid damage, 12487
- Goshen Valley, selected hydrologic data, 14361
- Gosman, A. L., thermodynamic properties of argon from triple point to 300 K at pressure to 1000 atmospheres, 6045
- Gosselin, Charles M., study of low pressure application of new orbitron and ion gauge designs, 11403
- Gostelow, J. P., performance comparisons of high Mach number compressor rotor blading, 2207
- Gott, Garland B.:
distribution of gold and other metals in Cripple Creek district, Colo., 14350
geochemical and geophysical anomalies in western part of Sheep Creek Range, Lander County, Nev., 1959
- Gottfried, G. J., shielded thermistor probe with portable instrument for measuring snowpack temperatures, 5672
- Gould, Alan E., economic climate for collective bargaining, facts, 14473
- Goulding, B. J.:
1000-MWe LMFBR follow-on study, task 1—
reports, 10558
system description reports—
concepts, 10560-562
- Gourash, Francis, analysis and design of inductors for protecting power transistors against current surges in inverter bridge circuits, 4725
- Gout, general information, 4777
- Goutmann, Michel M., relief, 13977
- Government:
Alaska recreation and government policies, 14196
and trade problems, some relations of metals industry (address), 5200
bookstores, information, 1324

Government—Continued

- census—
 - county, finances, 9117
 - final reports, 219, 1616, 7737, 9116-17, 10598, 11993-994
 - publication program, 9118, 10597
 - topical studies, 3830
- census publications, recurrent reports, scheduled, announcements, 249
- city finances, 247, 12016
- Confederate States of America, archives, guide, 1159
- criminal justice expenditure and employment for large governmental units, 1966-67, 6507, 9165
- District of Columbia, origin and form, 6782
- education and Federal laboratory-university relationships, symposium proceedings, 11054
- employment of major local governments, census statistics, 7737
- English and Government, Federal textbook on citizenship, 15846
- Federal—
 - and federally assisted programs, uniform relocation assistance and land acquisition policies act of 1969, 8074
 - automatic data processing equipment, inventory, 4286
 - budget process, 9348
 - commitment to occupational training in industry, 2101
 - disaster loan programs, hearings, 12288
 - domestic programs to assist American people in furthering their social and economic progress, description, 5519
 - educational activities concerned with improving international understanding and cooperation, inventory, 16958
 - educational policies, programs and proposals survey and handbook, 1692
 - employment of women, study, 15149
- Federal revenue and expenditure estimates for States and regions, 1965-67, fiscal years, subcommittee, analytical review, 1701
- format standards for scientific and technical reports, guidelines, 1861
- government policy and aircraft/airport noise problem, 12579
- housing and urban development programs, progress report, 15422
- improving administration of grant-in-aid programs by consolidation, proposal, 7859
- job evaluation and ranking, report, 5359
- library materials, procurement, orientation aid, 4614
- national goals and priorities analysis of allocation of budget resources as indicator, 16211, 17258
- position classification study, 3995
- procedural guide for acquisition of real property by governmental agencies, 4458
- programs and services to elderly Mexican-Americans, availability and usefulness, hearings, 12282
- programs assisting children and youth, 9170
- research and development programs financed by, investigation and study, authorization, report, 5407
- role in economic revitalization, continuing review, hearing, 4096
- role in health care, organization, financing, etc., of public and private activities, examination and review, hearings, 5417
- role in telecommunications (address), 10612
- science activities centralization, subcommittee report, 15226

Government—Continued

- Federal system, improve effectiveness, role of Advisory Commission on Intergovernmental Relations, 1
- Federalism in education, role of Federal Government (address), 10980
- finances, 1966-67, 1622
- four-dimensional public problem solving (address), 5737
- government finances, GF series, 247, 1622-23, 9161, 10609, 12016-17, 16669
- Government-Industry system safety conference, 4659
- governmental action, legal guidelines, alternatives to urban sprawl, 4860
- government's role in pricing fluid milk in United States, 1801
- intergovernmental responsibilities for water supply and sewage disposal in metropolitan areas, 8944
- intervention in market mechanism of petroleum industry, economists' views, hearings, 15468
- local—
 - advance land acquisition, benefit cost analysis as aid to policy, 1996
 - Federal aid payments, reporting, 10438
 - Federal grants, programs, study of major characteristics, 15456
 - government finances in selected metropolitan areas, 16669
 - planning and administrative personnel, pilot study, 14461
 - research and development, activities, 13203
 - unshackling, survey of proposals by Advisory Commission on Intergovernmental Relations, report, print additional copies, report, 7918
- making federalism work, study of program coordination at community level, 10961
- marketing and Government in changing world (address), 10643
- municipalities and township, finances, 1967, census of governments, 11994
- new horizons in local government (address), 780
- occupations, employment outlook, 4578
- operations, improving, General Accounting Office findings and recommendations, 1941, 3965
- our American Government, what it is? how does it function?—
 - print as House document, reports, 7914, 9419
 - questions and answers, 12145
- our Constitution and Government, Federal textbook on citizenship, 12819
- parking facilities, improvement in management by General Services Administration, GAO report, 11216
- patent policy study, research summary reports, 4250-51
- science, technology, and public policy, government-science relationships during 90th Congress, 1st and 2nd sessions, 15330
- scientific and technical communications, progress, 1862, 15699
- small local governments, monetary restraint, borrowing and capital spending, 4277
- special districts, finances, census of governments, 11993
- specialists and generalists, selection of readings, 476
- State and local—
 - construction expenditures, 5228-29
 - equal opportunity in employment, for all the people, by all the people, report, 12036
 - Federal disaster assistance by Office of Emergency Preparedness, GAO report, 12744
 - finances, significant features, 5013
 - finances, State reports, 1616

Government—Continued

State and local—Continued
financing industrial development, 565
fiscal years in 1967, 16670
North Central States, 16947
State and local government special studies,
6507, 9165, 12019, 16670
State government finances, 10609
State payments to local governments, 219
United States foreign credits, 1478, 7531,
14949, 16512
USSR church and state separated, 2077
see also Intergovernmental relations.

Government agencies, pollution control,
hearings, 6728

Government Board of Contract Appeals, de-
cisions, review by General Accounting Of-
fice and contracting agencies, opinion of
Attorney General, 7161

Government contracts:

Air Force Department operation and
maintenance contracts, potential sav-
ings by improving evaluation of com-
petitive proposals, GAO report, 8335

Army Materiel Command, contractor's
guide, 9033
at government-owned, contractor-operated
plants, differences in allowing corporate
expenses, GAO report, 705
bomb and hand grenade fuzes, reasonableness
of prices questioned under three
contracts, Army Department, GAO re-
port, 12748
book value and write-off of facilities, 4915
code of Federal regulations, 5632-33,
6967-70, 8226
construction by contract, Reclamation
Bureau safety requirements, 1363
contract pricing, Armed services procure-
ment, regulation manual, 5476
design administration, GSA handbook,
6166

DoD Contract Management Conference,
Contract Administration Services—
computer communication network, 1776
contractor performance and capability
evaluation, 1782
engineering role, 1777
logistic system interfaces, 1781
management science in procurement
cycle, 1772
manpower, 1774
operations evaluation, 1771
organization, 1770
pricing, 1783
proceedings, 1769
production surveillance and reporting,
1779
property, 1780
quality assurance, 1778
recommendations, 6831
resources management, 1775
techniques, 1773

DoD contractors' safety manual for am-
munition, explosives and related dan-
gerous material, 1784

Federal-aid airport program, labor re-
quirements in contracts, 15691
guide for businessmen doing business with
Federal Government, 17068
housing authorized by public contracts,
construction reports, 2690-91, 3333
incentive contracting guide, DOD and
NASA guide, 15495
institutional grants bill—
hearings, 419
study, 4006

Interior Department, research and devel-
opment guide, 14401
jurisdiction of U.S. courts over claims
against nonappropriated fund activities,
hearings, 489
labor standards for Federal service con-
tracts, 11779
management of value engineering in de-
fense contracts, course book, 5496

Government contracts—Continued

Manpower Administration, audit guide,
15995

MILSCAP, military standard contract ad-
ministration procedures, 552, 4138-39,
10957, 16932

NASA procurement directive, 3154
NASA procurement regulation, 3157
NASA's university program, active grants
& research contracts, quarterly report,
3156

National Highway Safety Bureau con-
tracts awarded, 8682

National Science Foundation, 4811

need for improved guidelines in contract-
ing for research with Government-spon-
sored nonprofit contractors, Defense
Dept., Atomic Energy Commission, Na-
tional Aeronautics and Space Adminis-
tration, GAO report, 5689

nonrenegotiable, losses, etc., revocation,
2440

procurement—
invitations, subcontracting leads, etc.,
Commerce business daily, 2674
M-16 rifles, additional, report, 457

procurement and contracting—
hearings, 9351, 10788, 12222
report, 15266

proposal evaluation and source selection,
Army Materiel Command pamphlet,
16582

small business position, hearings, 423

procurement and contracting, hearings,
7958, 9351, 10788

renegotiation act of 1951—
as amended—
regulations, 3376
text, 4913
examination, reports, 430

renegotiation bulletins, 2440, 4915, 8838-
39

requirements contracting and other aspects
of small purchases in Dept. of Defense,
GAO review, 4343

small business in area of Federal procure-
ment, problems, report, 454

stock item exemption, 8838

study of acquisition of peripheral equip-
ment for use with automatic data pro-
cessing systems, GAO report, 11227

support service contracting, status, staff
report, 420

Transportation Dept., what, where, and
how it buys, 13510

use of second-phase method of contract-
ing, method that does not encourage
maximum price competition, General
Services Administration, GAO report,
1954

water from Central Valley project, nego-
tiation for, by Bureau of Reclamation,
GAO report, 717

water pollution control research, develop-
ment, etc., 1968 awards, list, 6993

Government employees, *see* Government offi-
cials and employees.

Government employment, *see* Employment.

Government for District of Columbia Com-
mission, *see* District of Columbia Commis-
sion on Government.

Government life insurance, *see* Life insur-
ance.

Government National Mortgage Association,
Ginnie Mae programs (address), 12807

Government offices:

accounting systems as of Dec. 31, 1968,
progress and problems relating to im-
provement, GAO report, 15786

administrative practices and procedures,
study, authorization, report, 4057, 6752

air pollution abatement by Federal facili-
ties, report, 5393, 6757

print as Senate document, report, 6757

appropriations, 1970, supplemental, 12152

Government offices—Continued

attorneys' fees for services in proceedings before administrative agencies, restore to persons having claims against U.S., right to choose their own counsel, hearing, 405
 civilian employees, guide for shipping household goods, 7040
 congressional oversight of administrative agencies, hearings, 4087
 appendix, 5454
 cooperation in this Administration (excerpt of remarks), 5738
 cost reduction and management improvement program GAO report, 17058
 excess property, opportunity for savings by increasing transfers among Federal agencies, GAO report, 7032
 executive branch, salary reform for top officials, recommendations, message from the President, 3971
 executive reorganization—
 extend authority, 5341
 hearing, 6714
 law, 7828
 reports, 8018, 9285
 study, authorization, report, 5406
 Federal career literature, guide, 15141
 files maintenance and disposition, DSA manual change, 5485
 freedom of information act, compilation and analysis of departmental regulations implementing 5 U.S.C. 552, 1702
 General Accounting Office policy and procedures manual for guidance of Federal agencies, 2934
 Government organization and employees, title 5, United States Code, 16897
 Government organization manual, 1968, supplements, 5637, 6972, 8235, 9821, 14224
 independent offices, appropriations, 1970—
 hearings, 9332, 10768, 12285
 report, 10734
 waive points of order against certain provisions in bill, report, 10738
 interagency training programs, bulletin, 10629
 joint financial management improvement program, annual report, 4337
 leased and Government constructed projects, prospectuses hearing, 16898
 legislative reorganization act of 1969, improve legislative branch, report, 9432, 10842
 manpower, improved management, report, 6644, 10741
 nonappropriated fund activities, jurisdiction of U.S. courts over contract claims, hearings, 489
 organization of Federal executive departments and agencies, chart, 8071
 policies and procedures, General Accounting Office guidance manuals, 7022-23, 14230
 public expenditures, estimating benefits, guidelines, hearings, 12130
 realigning regional boundaries of certain Federal agencies, hearing, 13931
 records and papers, disposition, reports, 3980, 6643, 7890
 reductions in force, 15146
 reorganization, *see*, in main alphabet, Government reorganization plans.
 summer jobs in Federal agencies, 292
 survey of operations—
 General Services Administration, hearing, 402
 Transportation Department, hearing, 1703
 training and education programs, studies and reports, 1968 fiscal year, 5268
 treatment of tax depreciation by regulatory agencies, tax reform hearings, summary of testimony, 15349

Government offices—Continued

union recognition in Federal government, listings by agency, 7786
 water pollution control and abatement, 1966-68 survey, report, 5361
see also Government supplies.
 Government officials and employees:
 agency training centers for Federal employees, 1646
 blue-collar workers, new approach to setting pay, 8562
 civilian, guide for shipping household goods, 7040
 civilian personnel—
 technicians, Army National Guard, manning criteria, 7238
 technicians performance rating plan, 10186
 classified and postal salary systems compensation, hearings, 12243
 court leave for employees of United States and District of Columbia, correct inequities report, 13907
 crafts, protective and custodial employees coordinated Federal wage system, FPM supplement, 1643
 customs highlights for Government personnel, civilian and military, 16906
 employee training in Federal service, 5269
 statistical annex, 5270, 7783
 employment and payrolls, monthly, 3457
 Federal career directory, guide for college students, 12041
 Federal career literature, guide, 15141
 Federal civilian employment in U.S., by geographic area, annual report, 5267
 Federal civilian manpower statistics, monthly, release, 3139
 Federal classification act employees, 1924-68, wage chronology, 4596
 Federal employee facts, 10625, 12044-45, 15140
 Federal employee health series, 1334-35, 13345, 16343
 Federal employee unit arbitration, 8533
 Federal employees and annuitants health insurance, biweekly premium costs, Government to pay one-half, hearings, 9487
 Federal employment—
 monthly report, 3140
 statistics bulletins, 2838
 Federal news clip sheet, 2853
 Federal pay rate adjustments, message from President, 10695
 Federal personnel, bimonthly statistics, 2550
 Federal workforce outlook, 16682
 Foreign Service career, general information, 13471
 Government organization and employees, title 5, United States Code, 16897
 grade trend of Federal civilian employment under general schedule, 10628
 grant court leave when called as witnesses in certain judicial proceedings on behalf of State and local governments, hearing, 10799
 group life insurance, FPM manual supplement, 2860
 health benefits, FPM manual supplement, 2861
 health services, prospectus, 1334
 how to help injured employee, supervisor's handbook, 7083
 improper payments from private foundations, impose income tax, hearing, 10894
 incentive awards program, 10625
 injuries to civilian employees during 1968, reported under compensation act, 15645
 interagency training programs—
 bulletin, 10629
 Executive Seminar Center, Kings Point, N.Y., 3876
 key step, program to combat drinking problems among employees, 5261

Government officials and employees—*Con.*
 medical facilities available to injured in performance of duty under Federal employees compensation act, 16966
 off-campus study centers, 290
 overseas, civilian employees stationed abroad, tax information, 8444
 pay comparability procedures, how white-collar salaries in Federal service are tied to wage rates in private industry, 5912
 pay comparability system act of 1969, summary and text of bill as introduced, 13937
 per diem allowance, increase, reports, 6692, 6698, 16852
 personnel system, introduction, 279
 policy and supporting positions, 414
 position-classification standards, 3258
 postal employees, instructions and information, 3259
 progress in intergovernmental personnel relations, report, 11258
 protect in enjoyment of constitutional rights and prevent invasion of privacy, hearings, 412
 reducing costs of hospitalization, medical services, and drugs provided to Federal employees for job-related disabilities, GAO report, 9877
 reductions in force in Federal agencies, 15146
 reemployment rights of Federal employees who perform duty in Armed Forces, 3884
 retirement system, benefits and beneficiaries, 10369
 salaries of certain officers and employees of organizations funded under Economic opportunity act, report, 5328
 salary and retirement annuity increases, 3997, 13938
 salary classification laws, compilation, 5317
 salary comparability act of 1969, implement, report, 15265, 16787
 scientific and technical personnel in Federal Government, 17296
 selected public-employee retirement systems, holdings, quarterly report, 5226
 social security coverage of Federal personnel, 11669
 State designated agencies, officials and working contacts, list, 3078
 summer jobs in Federal agencies, 292
 toward equal opportunity in Federal employment, 13796
 trades and crafts, equipment operation and repair, examination announcements, 6519
 journeyman and junior levels, announcement, 15135
 travel, maximum rate of per diem allowance, increase, hearing, 6715
 unemployment compensation, by industry and State, 2792
 wage board employees, coordinate Federal wage system, 415
 work injuries—
 1967 report, 5563
 1968 report, 16965
see also Civil service—Civil service pensions—White collar workers.

Government Operations Committee, House:
 activities, 90th Congress, 1st and 2d sessions, 5376
 calendar, 3041
 committee prints, 1701-2, 5376, 6717, 7957, 9348-49
 hearings, 402, 1703, 6714-16, 7958-59, 9350-51, 10787-789, 12221-227, 13930-932, 15317-318, 16819
 investigations and studies
 authorization, report, 6662
 expenses, report, 7877

Government Operations Committee, House—
 Continued
 reports, 5361-62, 6685, 6692, 6694, 9285, 9300-1, 9305, 15244, 15296, 16779,
 statutes, compilation, 9349
 Government Operations Committee, Senate:
 activities, 90th Congress, report, 6753
 calendar, 3060
 committee prints, 471-473, 476, 4082, 6784, 6786-88, 8072, 9463, 10904, 14035, 14037, 15458, 16885,
 hearings, 474-475, 5447, 5449, 6785, 6789, 8070, 8073-74, 9464-67, 10902-903, 12300-301, 14032-034, 14036, 14038, 15455, 15457, 15459-460, 16886,
 index, 1739
 investigations and studies—
 executive reorganization, authorization, report, 5406
 intergovernmental relations, authorization, report, 4055
 national security and international operations, authorization, report, 4056
 Permanent Subcommittee operations, authorization, reports, 5405, 6751
 research and development programs, authorization, report, 5407
 organization chart of Federal executive departments and agencies, 8071
 reports, 6754-55, 8018, 8035, 9431-32, 10842, 15400-405, 15408-409, 16852
 Government organization manual, 14224
 Government periodicals, *see* Periodicals.
 Government Printing Office:
 apprentices, increase number authorized, report, 8033
 appropriations, 1970, legislative—
 hearings, 12917, 15415
 report, 15271, 16862
 bookstores, information, 1324
 financial statements, GAO examinations, 708, 12743
 style manual, word division, supplement, 9938
 Government Procurement Commission, establish, hearings, 7958, 9351, 10788, 12222, 14033, 15266, 15405.
 Government property, *see* Personal property—Public property.
 Government publications:
 classified list, 1325, 14777
 depository libraries, law governing, and list of libraries, 6733
 monthly catalog, 3132
 decennial cumulative index, 1951-60, 6168
 price lists, Public Documents Division, 1st series, 1326-29, 2403-8, 4865-68, 6169-71, 7409-10, 8787-92, 10292-93, 13332, 17328
 selected, list (periodical), 3429
 State publications, monthly checklist, 3133
see Congressional documents—*also* names of departments, etc., issuing publications—*also* subjects.
 Government reorganization plans:
 Emergency Planning Office, change name, 1690
 enacted 90th Cong., 1st sess, 5638
 executive—
 study, authorize, report, 5406
 title 5, United States Code, 5311
 hearing, 6714
 law, 7828
 reports, 8018, 9285
 transfer environmental evaluation, functions to Environmental Quality Council, hearings, 12225
 Health, Education, and Welfare Department, hearings, index, 1739
 Interstate Commerce Commission
 hearings, 16886
 recommendations, message from the President, 12153

- Government reorganization plans executive legislative reorganization act of 1969, improve legislative branch, report, 9432, 10812
- Post Office Department, proposals, hearings, 10797, 13935
- realizing regional boundaries of certain Federal agencies, hearing, 13931
- State Department, hearings, index, 1739
- Government securities, yields and prices, 3539
- Government specifications, *see* Government supplies.
- Government supplies:
- Federal item identification guides for supply cataloging, supplements, 2840-50
 - Federal item identification guides improvement program procedures manual, 529, 9517, 14082
 - Federal manual for supply cataloging—alphabetical index, 4123
 - format, content, and preparation of Federal supply catalog publications, 526, 5478
 - FSC classes assigned for integrated materiel management, special procedures, 9511
 - operating procedures, change, 5477, 8112, 9510
 - Federal procurement regulations, FPR amendments, 2868
 - Federal specifications, 658, 1893, 4283, 5646, 6979, 8254, 9827, 11138, 12650, 14225, 15735
 - Federal specifications and standards—guide, 14325
 - index, 8260
 - supplements, 2969
 - Federal standards, 659, 4284-85, 5647-48, 6980-82, 8255-57, 9828-30, 11139-142, 14236-237, 15736
 - Federal supply catalog—consolidated master cross references list, 1785, 8130-31, 10949, 15523
 - GSA stock catalog, identification list, 660, 2877-78, 5649, 8258, 15737
 - national supplier change index, 2876
 - Federal supply classification handbook—alphabetical index, supplements, 2880
 - groups and classes, 6823
 - numeric index, 2879
 - Federal supply code for manufacturers—excluding United States and Canada, supplements, 2882
 - United States and Canada—code to name, 2883, 4122
 - name to code, supplements, 2884
 - Federal test method standards, 5650, 6983, 8259, 11143, 12651-652, 17004
 - implementing procedures for purchase of supplies, assigned to DSA under DoD coordinated procurement program, 8118
 - International Development Agency, procurement regulations, 8487-88
 - mechanized supply and accounting procedures for office of United States property and fiscal officers (USPFO), 7339
 - NASA procurement regulation, 3157
 - NASA procurement regulation directive, 3154
 - Navy procurement directives, 3182
 - overseas U.S. agencies, effectiveness in meeting supply requirements, GAO report, 14314
 - procurement:
 - Job Corps centers tables of allowances, 4151
 - small business position, hearings, 423
 - procurement and contracting—hearings, 7958, 9351, 10788, 12222
 - reports, 15266
 - procurement invitations, subcontracting leads, etc., Commerce business daily, 2674
 - purchasing and sales directory, 4926
- Government supplies—Continued
- standard guides for preparation of proposed item logistics data records and proposed item identifications by Government suppliers, 6980
 - Transportation Dept., what, where, and how it buys, 13510
 - see also* Military supplies.
- Gow, Anthony J.:
 - bubbles and bubble pressures in Antaretic glacier ice, 1575
 - electrolytic conductivity of snow and glacier ice from Antaretica and Greenland, 1574
- Gowen, Justin B., mineral industry of Portugal, 964
- Grabar, Oleg, *Ars Orientalis*, Islam and the East, 11198
- Gracey, William, comparison of information display concepts for landing of VTOL aircraft, 1086
- Grad, Frank P., legal remedies for housing code violations, 1318
- Grade crossings, *see* Railroad crossings.
- Grade trend of Federal civilian employment under general schedule, 10628
- Graders, agricultural commodity (meat), examination announcements, 5251, 10630
- Gradients (mathematics):
 - density gradients near liquid/air interface, 14742
 - electrical system power flow optimization, using gradient method, USSR study, 851
- GEOS gravity gradient stabilized satellite, two alternate damping systems, analysis, 5980
- horizontal gradients of temperature and pressure, limb radiance calculation approach for model atmospheres, 17242
- Grading, *see* names of products.
- Grading and marking (students):
 - course grades for 2 naval air training schools, optimal weighting, 14500
- Grading of commercial products, *see* names of products.
- Graduate schools, *see* Colleges and universities.
- Graduate students, *see* Students.
- Graduate work, *see* Colleges and universities.
- Graduates:
 - business administration, opportunities in General Accounting Office, 725
 - college, and national security, utilization of manpower by Armed Services, bibliography, 1766
 - educational research, fellowship program, 4173
 - matching sheepskins with jobs, employment outlook for college graduates, 5910
- Grafting (botany):
 - effect of graft type on 6-month scion survival of field-grown Douglas-fir grafts, 15759
- Grafting of organic polymers onto inorganic substances, 191
- Graham, Hugh D., violence in America, historical and comparative perspectives, 13328
- Graham, R. D., feasibility study of reinforced plastic utility poles and piling, 1820
- Graham, Robert W., use of energy thickness in prediction of throat heat transfer in rocket nozzles, 13131
- Graham County, Ariz., geohydrology and water utilization, 7059
- Graham County, N.C., forest inventory statistics, 2515
- Gralkoski, J. T., irradiation preservation of freshwater fish, annual report, 5180
- Grain:
 - cereals, etc., trade agreement with other governments, 6275

- Grain—Continued**
 coarse grains, production, consumption, and trade, developments and prospects for selected foreign countries and areas, 10971
 costs of storing and handling grain in commercial elevators, 1967-68 and 1969-70 projections, 5526
 crop quality, 1968, inspected carlot, trucklot, and sample inspections, by kinds of grain, 6812
 culture, etc., publications, price list, 2405
 developments in Common Market, 4299
 experimental crops, trapping house sparrows to protect, 13469
 farm supply technology, 2-year post high school curriculum, 5513
 feed grain program, 3666, 7581, 11815
 foreign agriculture circulars, 2902
 futures act, and other laws, compilation, 3939
 grain drying, comparison of concurrent-flow, cross flow, and counterflow methods, 7595
 Japan's demand and 1985 import prospects, 10973
 market news—
 quarterly summary and statistics, 2943
 weekly summary and statistics, 2944
 standards, official, United States, 1751, 15483
 stocks—
 in all positions, quarterly report, 3468
 in deliverable position at Chicago, weekly report, 3469
 transit losses and boxcar defects, relationships, 6356
 varieties, impact in Asia, 12421
see also names of grains.
- Grain elevators, costs of storing and handling grain in commercial elevators, 1967-68 and 1969-70 projections, 5526**
Grammar, *see* names of foreign languages.
Gran Quivira National Monument, general information, 8723
Grand Banks:
 Newfoundland region, 1967, oceanography, 13801
 region and Labrador Sea, 1966, oceanography, 15154
Grand Calumet River, pollution of interstate waters, Ill.-Ind., conference proceedings, 11146
Grand Canyon National Park, North Rim, general information, 14713
Grand Canyon (U.S.S.):
 deployment to Malta, maritime matters, agreement, 17410
Grand Coulee Dam:
 colossal generating units at third powerplant, 14828
 third powerplant, general information, 13404
Grand County, Colo.:
 Empire quadrangle, geology, 14349
 Poison Ridge volcanic center, and related mineralization, 5706
Grand detour phase, 17372
Grand jury, Federal grand jury procedure, practical handbook, 4457
Grand Mesa, Colo., quaternary geology, 8354
Grand Mesa National Forest, resources and management, Interrelationship with Reclamation Bureau's Battlement Mesa project, water resource development impact, survey report, 12727
Grand Prairie, Tex.:
 flood plain information, 12455, 12462
 floods, how to avoid damage—
 Cottonwood Creek, 12530
 Johnson Creek, 12533
Grand Rapids, Mich.:
 community action program effectiveness and administration, GAO report, 11208
 Grand Rapids, Mich.—Continued
 Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 11214
 Grand Teton National Park:
 general information, 1221
 geophysical study, 746
 Granger, Harry C., geology of uranium deposits in Dripping Spring Quartzite, Gila County, Ariz., 5720
 Granger, M. L., river highway for trade, the Savannah, 14153
Granite:
 separation by using feldspar, quartz, and mica, 7215
 strength and deformation properties at various loading rates, 6907
 3 large igneous bodies in Inyo Mountains, Calif., 5721
 Granite Mountain, eastern Seward Peninsula, Alaska, metalliferous deposits, 5712
 Grano, Charles X., spraying southern pines not practical for tip-moth control, 1931
 Grant, Daniel J., precision flow measurement techniques for low-thrust auxiliary propulsion liquid rockets, 4700
Grant County, Ark.:
 community profile, 15563
 water resources, 756
Grant County, N. Mex., Silver City area, resources appraisal, 12790
Grant County, Oreg., John Day Country, geologic setting, 12771
Grants-in-aid:
 academic facilities constructed with Federal financial assistance, need for strengthening controls for determining compliance with statutory restrictions on use of, Education Office, GAO report, 1947
 active grants and research contracts, NASA's university program, quarterly report, 3156
 aging projects, 5014-17, 14971-973
 air pollution planning, guidelines 16345
 air pollution prevention and control programs, progress report, 433
 airport/airways development program, hearings, 14020, 15323-324
 airport planning and development program, hearings, 15337
 airport program, projects which sponsors are prepared to undertake during fiscal year 1969 and for which they have required Federal financial assistance, list, 5089
 airports, Federal aviation regulations, changes, 4244, 6935-37, 8199, 14185, 16981
 allied health professions personnel training act of 1966, amended report, 8683, 13167
 allied health professions program, traineeship grants for advanced training, 2308 and other financial assistance programs administered by Health Services and Mental Health Administration, 16314
 Appalachian regional development, supplements, hearings, 9491, 10801, 10919
 biomedical engineering, research training programs, compendium 17273
 California, disaster relief act of 1969: hearings, 9492
 reports, 10740, 10761, 15279
 cardiovascular training grant program directors, National Heart Institute, 15th conference, report, 4783
 child nutrition and school food assistance, hearings, 14058
 child welfare personnel, Federal grants for training, 5236
 children and youth, Federal programs, 9170
 clean water, Federal grants, 5655

INDEX 1969

Grants-in-aid—Continued

clinical research center grants, need for further action to determine allowable costs and recover overpayments, National Institutes of Health, GAO report, 1944

colleges and universities, national program for advancement of science and education of scientists, hearings, 419, 4000

communicable disease control, authorization, hearing, 14054

community mental health centers, grants for construction and staffing, 6173

construction of academic facilities, practices followed by Education Office in adjusting, GAO report, 5692

construction of community mental health centers, hearings, 5471

construction of elementary and secondary schools, to increase educational opportunities, hearings, 15314

cooperative research and demonstration grants, Social and Rehabilitation Service, 14973

crime control and safe streets act, grants and loans awarded, 1968, list, 5878

DHEW obligations to medical schools, 1968 fiscal year, 17276

disaster relief, status of funds, 6584

Economic Development Administration—
grants and loans for public works and development facilities, 12390, 16940
grants for public works and development facility projects, improvements needed in procedures for determining supplementary assistance, GAO report, 4340
planning grants for economic development, 12391, 16941
requirements for approved projects, 5518

education—
construction of television and radio broadcasting facilities, etc.,—
hearings, 10796
report, 8058, 8049, 15259
elementary and secondary administration of programs, notes and working papers, 1742
elementary and secondary amendments of 1969 programs, extend—
hearings, 5372, 6709, 15473, 16891
report, 6695, 7891
elementary and secondary education act of 1965, 15643
statistical report, 15643
Federal funds, 1969, State allotments for funded programs, 10970
gifted and talented children, hearing, 13927
handicapped children, preparation of professional personnel, manual, 15639
more opportunity, college degree training for a job, Office of Education sponsors programs that can assist you! 5548, 15636
support for the arts and the humanities, 4189
where the money is, American education's annual guide to OE programs, 5559

educational services in public and private nonprofit child day care centers, improve, hearings, 396

experimental and special training grants, NIMH, guidelines for applicants, 17337

Federal aid—
airport program, labor requirements in contracts, 15691
education of children in federally affected areas, 1968 annual report, 14127-128
highway act of 1968, equal employment opportunity provision, implementation—
hearing, 6799
report, 6736, 8024

Grants-in-aid—Continued

Federal aid—Continued
highway programs, statement of financial provision, 11057
highway safety programs, hearings, 13939
highways, America's lifelines, 10340
payments to State and local governments, reporting, 10438

Federal and federally assisted programs, uniform relocation assistance and land acquisition policies act of 1969, hearings, 8074

Federal financial aid for dental health, guide, 10191

Federal grants system, new federalism designed to improve administration, grants (remarks), 15839

Federal programs—
Commercial Fisheries Bureau, 1969 activities, 12073
improving administration by consolidation, proposal, 7859
joint funding simplification, hearing, 16819
State and local governments, study of major characteristics, 15456
withdrawal of cash from Treasury for advances, regulations, 8918

federally assisted public housing children, educational assistance to federally impacted areas, hearing, 7951

federally supported state technical assistance for community development, report, handbook, 17081

finance travel to international youth conferences, hearings, 495A

financial aid for higher education, 8169

financial assistance and educational opportunities for nursing students, 15041

funded redevelopment areas, map, 15533

funding Appalachian projects, development districts and research, guidelines, 7642

gifted and talented children educational assistance, report, 15269

grants administration manual, 2945
circular, 2946
grants administration report, 2947
grants to States for public health services, 1336

handicapped, financial assistance programs, 1978

health professions, educational improvement grants, 4883

health research facilities program, PHIS, annual report, 3950

health services for migratory and seasonal agricultural workers authorization, extend hearings, 16820

higher education programs in foreign language and area studies, research and training opportunities abroad, 14142

higher education, toward long-range plan for Federal financial support, 4381A

highway program—
research and development studies using Federal-aid funds, 6217
tables, 4255, 11059
highway safety act of 1966, cost estimates, report, 417

historic preservation, information for applicants, 12809

hospitals and health facilities construction and modernization, program, extend hearings, 7965, 14056

HUD grants and loans to meet insurability requirements of your property, 15836

HUD, nonmetropolitan district planning assistance, 14390

improvement of State and local personnel administration, etc., hearings, 8070

Interior Department, research and development, guide, 14401

international health, education, and labor programs, hearings, 495A

Grants-in-aid—Continued

- law enforcement, grants for comprehensive planning, 5877
- letter of credit procedures (recipient organizations), HUD handbook, 15828
- manpower research institutional program, first three years, 14439
- medical facilities construction and modernization amendments of, reports, 1969, 9309, 9323
- Medical Foundation of Bellaire, Ohio, health services programs—
 - hearings, 12224
 - report, 15296
- medical library assistance act of 1965, extend—
 - hearing, 9360, 14057
 - report, 10731, 10762, 16863
- mental retardation, awarded by HEW, lists—
 - construction training, and other, 15820
 - research and demonstration, 7066
- model cities planning awards, 10321
- National Center for Health Services Research and Development, health services research centers, research grant program, 11617
- National Center for Radiological Health research projects supported by grant funds, 4887
- National Heart Institute, respiratory tract in health and disease, review of research grants, 11541
- National Institute of Dental Research, 1967 funds, 1194
- National Institutes of Health—
 - special research, 17278
 - training programs, 1968 funds, 4780
- National Institute of Mental Health—
 - research, 14971
 - training support, 5016
- national institutional grants program,
 - hearings, 9366
 - report, 15274
- National Science Foundation, 4811
 - program guide, 11555
- nonprofit organizations, sponsors of low and moderate income housing, 5741
- nursing homes, etc., for veterans, increase Federal payments, reports, 9318, 16867
- nursing research grants supported by Nursing Division, list, 6058
- nursing schools awarded construction grants, Dec. 1968-June 1968, list, 2419
- nursing student assistance programs, fiscal year 1970, schools participating, 12782
- omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
- operating Federal assistance programs, listing compiled during Roth study, 370
 - report, 15246
 - print as House document, reports, 380, 15392
- outdoor recreation grants-in-aid manual, 3232
- outdoor recreation, manual, 4836, 7392
- paraplegic veterans housing program, modify eligibility requirements—
 - law, 10684
 - reports, 6764, 9294
- partnership for health, health services development project grants, policy statement, 6195
- population conference, hearings, index, 1739
- population research and training, 8684
- public facility requirements over next decade, hearings, 6567
- Public Health Service—
 - comprehensive health services projects, guidelines for development, 8804
 - construction of facilities, 1347, 16264

Grants-in-aid—Continued

- Public Health Service—Continued
 - health services, formula, project, regional medical planning grants, etc., 1348
 - migrant health projects, directory, 10300
 - protection of individual as research subject, 8812
 - research funds, 11633
 - research grants, index, 7346
 - summary tables and graphic highlights, 4894
- public works and development facilities under Public works and economic development act amendments of 1969, hearings, 10802
- public works and economic development act of 1965, administration of sec. 702, hearings, 416
- public works grant rates in qualified areas under Public works and economic development act, 5517
- regional medical libraries, information and policy statement, 7350
- regional medical programs, progress report, 4891
- reporting foreign grants, loans, and credits, regulations, 2523
- research project grants to institutions of higher learning, indirect costs and cost sharing, hearings, 9465, 10903
- science and engineering, support and research, participation of young and senior academic staff, 2323
- solid wastes demonstration grant projects, 1968, summaries, 4901
- staffing of community mental health centers, hearings, 15471
- State/interstate solid waste planning grants and agencies, 7428-29
- State maximums and other methods of limiting money payments to recipients of special types of public assistance, 10183
- State planning agency grants under Omnibus crime control and safe streets act, guide, 5877
- States, for public health services, July 1, 1968, regulations, 2423
- student assistance programs, 1969-70 allocations of Federal funds for education purposes, 14052
- student financial aid, 4170, 12433
 - what, where, how, 5556
- student financial assistance, hearings, 15312-313
- universities and colleges, 1967 fiscal year, Federal support, 7362
- veterans educational amendments of 1969, report, 9295
- water pollution control—
 - research and development program, 6992
 - research, development, etc., 1968 awards, list, 6993
- water resources planning act of 1965, river basin commissions established, report, 5332
- Grapefruit juice:
 - U.S. standards for grades, 512, 4113
 - canned blended grapefruit juice and orange juice, 4108, 10924
 - dehydrated, 1755, 10927
 - frozen, concentrated, 4112
 - frozen concentrated blended, 1757
- Grapes:
 - concord, from Canada, Tariff Commission investigation, 13499
 - vinifera, chip-bud method of propagating on rootstocks, 14996
- Graphic arts, see Art.

Graphic methods:
determining absolute altitude of sounding rocket vehicles, 10118
improvement of transportation graphics and communications, proceedings of seminar, 13387

Graphical solutions of geologic problems, 14880

Graphite:
filament-wound pressure vessels at ambient and cryogenic temperatures, tensile and cyclic fatigue properties, 13129
floatation of muscovite from Alabama graphitic-mica schist ore, 10064
graphite heat transfer tubes of controlled permeability to steam, scale control, phase 2, 4102
joining ceramics and graphite to other materials, 2212
minerals yearbook chapter, 14527
pyrolytic graphite, pressure-annealed, magnetothermal oscillations, 17236
reaction with silica in vacuum, effect of physical parameters, 2174
trade and tariff information, summaries, 13500

Graphite fluoride, potential new solid lubricant, preliminary investigation, 7274

Graphites, artificial, crystallographic data, 1107

Graphitic oxides, containing reverse osmosis membranes, 9961

Graphs, see Charts—also subjects.

Grasses:
alkali sacaton seedling survival and early growth under temperature and moisture stress, 9856
culture, etc., publications, price list, 2405
grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
key to native perennial grasses, Midwest region east of Great Plains, 1407
lawns, description, 1506
low herbicide concentration found in streamflow after grass cover is killed, 9863
planting grass appears impractical for improving deteriorated recreation sites, 9860
see also Sudan grass.

Grasshoppers, survey, species, field guide, 13541

Grasslands, grassland cover types in northern New Mexico, soil temperatures, 5670

Gratkowski, H., reclamation of nonsprouting greenleaf manzanita brushfields in Cascade Range, 8307

Gratuities:
special information about social security for people who receive cash tips, 1400
tips, reporting for Federal tax purposes, 12837

Gravel:
buried sand and gravel deposits in shallow-water areas, technique for location, 13246
on Continental Shelf off northeastern U.S., 5708
pit-run clay gravel, gyratory compaction of soil data report, 1829

Gravel Island National Wildlife Refuge:
designate as wilderness—
hearing, 479
report, 9430

Gravitation:
analysis of maximum range trajectories for rocket-propelled lunar flying vehicles in uniform gravitational field, 17228
coordination of voluntary movements of man in a zero gravitational field (under weightlessness), 13147
natural frequency of liquids in annular cylinders under low gravitational conditions, 14648

Gravity:
Apollo command module with offset center-of-gravity positions at Mach numbers to 29, trim attitude, lift, and drag, 11480
artificial gravity and weightlessness, potential problems, 4715
artificial, stabilization criteria in rotating space station, 17221
field, suitability of white rats for sub-orbital studies of behavior in, 2206
GEOS gravity gradient stabilized satellite, two alternate damping systems, analysis, 5980
International Indian Ocean Expedition, USC&GS Ship Pioneer, data, 15151
lateral sloshing in cylinders under low-gravity conditions, 6010
liquid hydrogen spherical tankage, effect of size on normal-gravity self-pressurization, 10125
measurements and standards laboratory, 14675
model comparison using GEOS I long-arc orbital solutions, 11436
motion of artificial satellites in Earth's gravitational field, 13145
motion of single bubbles under low gravitational conditions, 16196
transverse G, special reference to, effects of acceleration on human performance and physiology, 81
vapor ingestion phenomenon in weightlessness, 10130

Gravity, specific, see Specific gravity.

Gravity waves, see Waves.

Gray, Hugh R.:
hot-salt stress-corrosion of titanium alloys, generation of hydrogen and its embrittling effect, 4728
hot-salt stress-corrosion of a titanium alloy under simulated turbine-engine compressor environment, 17251

Gray, Lewis:
wind tunnel tests of thin airfoils oscillating near stall—
data report, 6460
summary and evaluation, 6459

Grays Harbor, estuarine studies, 11252

Grazing:
fees on public lands, hearings, 9471, 10790
grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
management systems and some pertinent literature 1895-1966, discussion, 14257
poor returns from Ozark woodland grazing, 4306
publications, price list, 10292
woodland grazing management, 12685

Grease, see Lubricants.

Great Basin, northern, surface water records, 4369

Great Basin tent caterpillars, see Tent caterpillars.

Great Britain:
ambassador, nomination of Walter H. Annenberg, hearing, 5443
atomic energy, cooperation for mutual defense, purposes, agreement, 8897
ballistic missile early warning station at Fylingdales Moor, Yorkshire, agreement, 7501
coal mine safety and health practices, new developments, investigation and study report, 7893
east coast of England, sailing directions, change, 6116
economic trends and their implications for United States, 12847
European and British Commonwealth series, 7482
foreign economic trends and their implications for United States, 5786

- Great Britain—Continued
foreign relations of U.S., diplomatic papers—
departmental editions, 11704-705
document editions, 10690-691
infant and perinatal mortality in England, 1351
lights and fog signals, list, 6128, 14729
mineral industry, minerals yearbook chapter, 5950
photographic products industry and market, 15087
south coast, sailing directions, change, 1239
United Kingdom, projected level of demand, supply, and imports of agricultural products, 1970, 1975, and 1980, summary, 14125
west coasts of England and Wales, sailing directions, change, 6115
- Great Lakes:
alewife controls, hearings, 409
fisheries, annual summary, 13815
ice atlas, 11357
ice cover, basic data reports, 4610, 17158
light list, and other marine aids, 5282
notice to mariners, 3207
pilot, survey, 905, 7190, 11358-359, 12982, 16032, 17159
pilotage regulations, 12061
pilotage services, agreement with Canada, 16474
region, war on poverty, examination, case study, 4092
small craft, gale, and storm warning facilities chart, 11782
solar altitude charts and tables, 4611
United States and Canadian fleets, steam and motor ships, etc., 11368
waterborne commerce, 1823, 12556
Great Lakes Basins Commission, report, 5332
Great Lakes Fishery Laboratory, Ann Arbor, Mich., general information, 13519
- Great Lakes States:
eastern white pine seed sources, early growth, 4308
northern region—
economic survey, statistical supplement, 6855
selected economic trends in agricultural sector, 9639
pulpwood production and consumption in north central region by county, 11191
Scleroderma canker—
evaluation, 11169
1968 situation report, 11177
- Great Miami River and Valley:
ground-water in lower Great Miami River Valley, Ohio (series), 1969
lower, ground-water hydrology and geology, 1969
- Great Plains:
conservation program, extend—
hearings, 7941
report, 7938, 10866, 16797
- Great Smoky Mountains National Park:
certain lands within and portions of highway bordering, convey to Tennessee—
law, 15205
reports, 10724, 12265
general information, 6078
roadway entrance, specify route, etc., report, 12167, 16874
- Great South Bay, eastern section, pollution, progress evaluation meeting, proceedings, 663
- Great Swamp National Wildlife Refuge, designate certain lands as wilderness, hearing, 479
- Great Valley Creek, flood plain information, 9662
- Greece:
air transport services, agreement, 6298
capsule facts for Armed Forces, 1558
cotton textiles, trade agreement, 11715
- Greece—Continued
economic trends and their implications for United States, 2026, 8477
foreign trade regulations, 9210
Greek language, basic course, 13475
Green, Barbara K., Latin American economic integration, implications for U.S. business, 6343
Green, John N., relief, 13893
Green Bay, bottom trawl explorations, 7811
Green Bay, Wis., area wage survey, 2118
Green Bay National Wildlife Refuge, designate as wilderness—
hearing, 479
report, 9430
Green coffee inventories, imports, and roasting, current business reports, 2725
Green River and Valley, three faces of river below Flaming Gorge Dam, general information, 11288
Green River formation, oil shales, determination of dawsonite and naholite, 13028
Greenacres Road, crossing, floodflow characteristics, Willamette River at Lambert Bend, 9937
Greenberg, Irving N., electronic component of thermal conductivity in semiconductors, 1572
Greene County, Ark., community profile, 15564
Greene, James W., relationship of naval aviator's speech discrimination test to pure tone audiogram, 14498
Greene, Karen, occupational licensing and supply of nonprofessional manpower, 15999
Greenfeld, Sidney H.:
hail resistance of roofing products, 14662
performance of roofing made with Asplund felts, 7326
study of variables involved in saturating of roofing felts, 13156
- Greenhouses:
framing for plastic covering, farm building plan, 3657
plastic covered coldframe, farm building plan, 3654
- Greenland:
air navigation services, joint financing agreement with other governments, 2500
east, sailing directions, change, 17300
electrolytic conductivity of snow and glacier ice, 1574
50-man winter camp at Tuto, design and construction, 15651
fog modification studies on Greenland ice cap, 11931
lights and fog signals, list, 2334, 8750, 16301
tide tables, 9195
VLF effective ground conductivity map of Greenland, etc., with revisions derived from propagation data, 10269
west coast, sailing directions, 4819, 17299
Greenland Sea, Western oceanographic cruise summary, 13221
Greenlee County, Ariz., mineral resources of Blue Range primitive area, 14328
Greensite, Arthur L., analysis and design of space vehicle light control systems, 10068
Greenspan, Martin, engineering and instrumentation, journal of research, 3026
Greenvale Cove formation, western Maine, 7044
Greenville, S.C., area wage survey, 14453
Greenwood quadrangle, Ark.-Okla., geology, 4362
Greeting cards, Library of Congress, list, 16034
Gregg, George, effect of maturation and educational experience on Air Force qualifying test scores, 8996
Gregory, Gerald L., experimental study in vacuum of rate-of-rise outgassing measurement technique, 4711

- Gregory, Kelth E., beef cattle breeding, 11863
- GREMIEX, *see* Goddard Research and Engineering Management Exercise.
- Grenades, fuzes for hand grenade, reasonableness of prices questioned under three negotiated contracts, Army Department, GAO report, 12748
- Greyhound Lines, Inc., motor carrier accident, 16115
- Grid systems, *see* Maps and charts.
- Grids:
- glass coated electron-bombardment ion thruster grids, fabrication process, 13107
 - satellite ion-electron collector, experimental effects of grid transparency photoemission, and secondary emission, 6913
- Grier, Norman T.:
- back flow from jet plumes in vacuum, 2266
 - tabulations of configuration factors between any 2 spheres and their parts, 16151
 - view factors for toroids and their parts, 8610
- Griffin, A. C., gin-stand research at Stoneville, Miss., 1956-66, 15007
- Griffin, Noyce L.:
- electronics for hospital patient care, 1337
 - hospital electrical facilities, 6183
- Griffith, E. D., feasibility study of non-Newtonian gelled fluids as shock and vibration-isolation medium, 15055
- Griffiths, John F., bibliography of weather and architecture, 11022
- Griffiths, Raymond C., physical, chemical, and biological oceanography of entrance to Gulf of California, spring of 1960, 5303
- Griffiths, Wallace R., geochemical evidence for possible concealed mineral deposits near Monticello Box, northern Sierra Cuchillo, Socorro County, N. Mex., 740
- Grim, Paul J., SEAMAP deep-sea channel, 6917
- Grimes, Anne E., annotated bibliography on climate of Nepal, 4224
- Grimes, D. J., direct-current arc and alternating-current spark emission spectrographic field methods for semiquantitative analysis of geologic materials, 11234
- Grimwood, James M., Project Gemini, technology and operations, chronology, 11432
- Grinstead, Robert R., recovery of salts from saline waters via solvent extraction, final report, 7086
- Grizzell, William G., mechanical sizing of celery stalks by weight, 1509
- Groceries, wholesaling, facts about, marketing report, 1613
- Grocery stores, *see* Stores.
- Groemping, Franz A., transition from school to work in selected countries, 16030
- Groeneweg, John E., measured effects of gaseous flow system on acoustic mode combustion instability, 7265
- Groom, Phyllis, Americans volunteer, 7164
- Grosch, C. B., method of deriving orbital perturbing parameters from onboard optical measurements of ejected probe or natural satellite, 14584
- Gross, D., smoke and gases produced by burning aircraft interior materials, 6038
- Gross, Jack E., respect for drugs, community service program, 5966
- Gross, Joseph E., III, preprocessing electronic satellite observations, 1011
- Gross, Peter R., relief, 4029
- Gross national product:
- calendar year 1967, current market prices, 7122
 - growth rate and trend data by region and country, 10001
- Ground, *see* Earth—Land.
- Ground conductivity, *see* Electric conductivity.
- Ground effect:
- airplane model with double-delta wing, including longitudinal and lateral characteristics and ground effects, large-scale tests, 7276
 - power gains for antennas over lossy plane ground, 9723
- Ground rods, rod and rod section, Federal item identification guide, change, 5490
- Ground schools, *see* Aeronautics.
- Ground support equipment, functional classification categories, military standard, 14103
- Ground water, *see* Water.
- Ground waves, *see* Radio waves.
- Groundfish, *see* Fish and fisheries.
- Group insurance, *see* Life insurance.
- Grouse:
- blue grouse, habitat management, 16423
 - greater prairie chicken and sharp-tailed grouse, characteristics and habitat requirements, review of literature, 4296
 - ruffed grouse, habitat management, 16433
 - sage grouse, habitat management, 16434
- Grout, Jarrell C., general computer program for solving nonlinear regression problems, 14531
- Grouting, oxygen consumption and hydrogen production by shrink-resistant grouts in confined places, 10067
- Grove, Robert D., vital statistics rates in United States, 8823
- Grove Creek, flood plain information, 12470
- Groves, Ivor D., Jr., high-pressure piezoelectric ceramic transducer, USRD type F43, 7389
- Grow with world trade (address), 15888
- Growing dates in United States, 5030
- Growth, children, research programs, studies in progress, 6511, 15124
- Grube, Arthur F.:
- mineral industry of Indonesia, 17183
 - mineral industry of Thailand, 13020
- Gruen, Edward D., technical notes on new census method for seasonal adjustment of foreign trade data, 12020
- Gruver, James E., test comparison between functional and volume concepts of delineating traffic corridors, 7435
- Grymes, Robert O., estimates of number of households by State, 9158
- Gryzbowski, Kazimierz, Poland in collections of Congress, overview, 10037
- GSA, *see* General Services Administration.
- G'Schwend, Sybella C., marketing information guide, annotated bibliography, 3166
- Guadeloupe:
- capsule facts of Armed Forces, 3719
 - economic trends and their implications for United States, 8470
 - plant quarantine import requirements, 13549
- Guadalupe River, flood plain information, 12459
- Guam:
- annual report, 4393
 - census of business, 1967, manufactures, and mineral industries, 13755
 - development fund act of 1968, report, 372
 - economic development, promote, report, 372
 - exchange of vessels for conversion and operation in unsubsidized service, hearings, 1705
 - Governor, nomination of Carlos G. Camacho, hearing, 14044
 - liberation, 12991
 - nautical chart catalog, 7789
- Guam National Seashore, master plan, 13192
- Guaranties and sureties:
- Aircraft guarantee loan program, amend act, hearing, 404
 - Federal National Mortgage Association guaranties of participation certificates, opinion of Attorney General, 4456

- Guaranties and sureties—Continued
 filings of surety bonds, etc., by motor carriers subject to interstate commerce act, rules and regulations, 829
 investment, agreement with—
 Antigua, 2496
 Nicaragua, 2498
 St. Christopher, Nevis and Anguilla, 6290
 Western Samoa, 17412
 Guards (persons):
 protective responsibilities of Secret Services, 8844
 Guatemala, capsule facts for Armed Forces, 3721
 Guaymas, Mexico, despatches from U.S. consuls, 1832-96, pamphlet, to accompany microcopy, 14660
 Guernsey cattle, see Cattle.
 Guerra, Jose R., relief, 4031
 Guerrilla warfare:
 advocates in U.S., report, 4001
 Communist wars of national liberation, 3731
 counterguerrilla operations, Army field manual, 11935
 Guidance:
 character, discussion topics, Army pamphlets, 7658, 9037
 State Department of Education personnel directory, 9650
 see also Counselors.
 Guidance systems:
 advanced scanning beam guidance system for all weather landing, 7539
 manned guidance and control techniques for large launch vehicles, simulation studies for planning in-flight experiment, 8632
 planetary probe guidance accuracy influence factors for conjunction-class missions, 4701
 surface-to-air missile series, engineering design handbook, 3736
 Guide books, *see* Pocket guides.
 Guide cards, file, pressboard, Federal standard, cancellation, 4285
 Guide to specifications, and standards of Federal government, 14325
 Guided missiles, *see* Missiles.
 Guido, Pedro L., relief, 6602, 13896
 Guilford Courthouse, general information, 1222
 Guilford Courthouse National Military Park, master plan, 7357, 13190
 Guilfoxy, Robert F., Jr., relationships between grain transit losses and boxcar defects, 6356
 Guinea:
 agricultural commodities, agreement, 7520
 background notes, 14898
 Guinea pigs, hypercapnic, maximum rate analysis of erythrocyte carbonic anhydrase in, 13001
 Guiney, Carl F., new era, 3186
 Guitarro (USS):
 sinking
 hearing, 12208
 report of subcommittee, 10770
 Gulf, *see* names of gulf, or places where located.
 Gulf and South Atlantic States Shellfish Sanitation Research Conference, proceedings, 11629
 Gulf Coast:
 light list, Little River, S.C., to Rio Grande, Tex., and Antilles, 6536
 nautical chart catalog, 12060
 passenger lists of vessels arriving at ports, 1820-74, supplemental index, pamphlet to accompany microcopy, 16220
 shrimp data, 2948
 Texas hurricane surge frequency estimated, 10995
 Gulf Intracoastal Waterway, *see* Intracoastal Waterway.
 Gulf, Mobile and Ohio RR., accident, report, 11081
 Gulf Stream:
 monthly summary, the Gulf Stream (periodical), 3144
 supplement, 10223
 oceanographic cruise summary, North Atlantic Ocean, 13259
 Gulfs, *see* name of gulfs or places where located.
 Gulick, J. W.:
 remarks—
 Oct. 11, 1968, 915
 Oct. 29, 1968, 916
 Dec. 12, 1968, 2129
 Feb. 24, 1969, 5925
 Gullidge, Eugene A., nomination, hearing, 15423
 Gully, A. J., removal of acid gases and oxides of nitrogen from space cabin atmospheres, 13049
 Gundaker, Walter E., recommendations for safe operation of particle accelerators, 4884
 Gunderloy, Frank C., Jr., dilute solution reactions of nitrate ion as applied to water reclamation, 14245
 Gunn effect and its applications, USSR, 12922
 Gunnery, field artillery gunnery and naval gunfire support, Air Force manual, 7621
 Gunnison National Forest, La Garita Wilderness general information, 15752
 Guns, control act of 1968, questions and answers, 7098, 15871
 see also Explosive guns—Firearms.
 Gunter, Edgar J., Jr., rigid rotor dynamics, 16125
 Gurney, Margaret, New Florencia, case study for 1970 censuses of population and housing, sampling, 5231
 Gussow, Sidney, computer-aided filter design manuals, 14600
 Gustavson, Samuel A., mineral industry of Delaware, 949, 17181
 Gut Dam, claims, settlement, agreement with Canada, 7506
 Guy, Harold P., laboratory theory and methods for sediment analysis, 15811
 Guyana:
 agricultural commodities, agreements, 6282
 capsule facts for Armed Forces, 1561
 economic trends and their implications for United States, 15876
 mineral industry, minerals yearbook chapter, 5938
 Gypsum:
 mineral industry survey, quarterly, 2949
 minerals yearbook chapter, 16077
 trade and tariff information, summaries, 13500
 Gypsy moths, general information, 11880
 Gyrotory compaction of soil, pit-run clay gravel, data report, 1829
 Gwandu formation, artesian aquifers, 12770
 Gyroscopes, strapdown, for dynamic environment, design, interim scientific report, 14575

H

- H.E.W., *see* Health, Education, and Welfare Department.
 H.U.D., *see* Housing and Urban Development Department.
 Haar, Charles M.:
 addresses, etc.—
 Feb. 28, 1968, 7078
 Oct. 12, 1968, 784
 Oct. 22, 1968, 786
 Haas, Larry A., effect of physical parameters on reaction of graphite with silica in vacuum, 2174

- Haber, Lawrence D.:
disability, work, and income maintenance, prevalence of disability, 1393
effect of age and disability on access to public income-maintenance programs, 1394
epidemiological factors in disability, 7458
identifying disabled, concepts and methods in measurement of disability, 1392
- Habib, L. M., continuum theory for elastic solid with elastic micro-inclusions, 7241
- Habitability, and biotechnology, space biology problems, 11503
- Habitat:
Gebel 'Uweinat, Libyan Desert, 13423
management for—
blue grouse, 16423
bobwhite, 16424
California quail, 16425
Canada goose, 16426
chukars, 16427
elk, 14864
gray partridge, 16428
mallards, 16429
mourning doves, 16430
mule deer, 14865
pronghorn antelope, 16431
ring-necked pheasants, 16432
ruffed grouse, 16433
sage grouse, 16434
wood duck, 16435
- Hackett, Gerald A., executive calendar, Senate, 3067
- Haddock, inoculated with *Clostridium botulinum*, type B, effect of gamma rays, 7685, 7712
- Haener, Juan, oblique loading of unidirectional fiber composites, shear loading, 6455
- Hafnium:
columbium-hafnium system, effect of microstructure on superconductivity, 10059
minerals yearbook chapter, 14562
molybdenum-hafnium-carbon alloys, mechanical properties and heat treatment, exploratory study, 5997
- Hafnium carbide:
arc-melted tungsten-rhenium-hafnium-carbon alloys, mechanical properties, 13123
polycrystalline, and hafnium carbide containing 13-volume-percent hafnium diboride, high-temperature mechanical properties, 4735
- Hafnium diboride, polycrystalline hafnium carbide and hafnium carbide containing 13-volume-percent hafnium diboride, high-temperature mechanical properties, 4735
- Hafnium oxide, stabilized with calcia, magnesia, and yttria, effects of cyclic heating and thermal shock, 14607
- Haggard, John B., jr., motion of single bubbles under low gravitational conditions, 16196
- Hahn, G. T., plastic flow in locale on notches and cracks in Fe-3Si steel under conditions approaching plane strain, 2447
- Hahn, Gilbert, jr.:
nomination—
hearings, 5437
report, 6737
- Haldar, Walter:
basic data on economy of—
French Guiana, 3902
Martinique, 10647
foreign trade regulations of Mexico, 9203
- Hall, William J., jr., geology of southwestern North Park and vicinity, Colo., 1958
- Hall:
denting of airplane surfaces, analytical evaluation, 13134
resistance of roofing products, 14662, 16223
- Hallstones, see Hall.
- Haines, William H. B., pulpwood prices in Southeast, 1926
- Hair, Dwight, demand and price situation for forest products, 5952
- Hair, J. L., construction techniques and costs for underground emplacement of nuclear explosives, 13708
- Hair, flammability of skin and hair in oxygen-enriched atmospheres, 10525
- Haiti:
background notes, 4955
economic trends and their implications for United States, 17108
- Hallberg, H. N., water resources of Grant and Hot Springs Counties, Ark., 756
- Hale, Henry R.:
decompression stress in simulated orbital flight, 93
endocrine-metabolic effects of transatlantic helicopter flight, 101
endocrine-metabolic response to sequential decompression during simulated orbital flight, 97
nitrogen and helium as factors affecting decompression stress severity, 98
- Hale formation, northwestern Arkansas, early Reticuloceras zone fauna, 1970
- Haley, Boyd R., geology of Scranton and New Blaine quadrangles, Logan and Johnson Counties, Ark., 4263
- Halfway or more?, 10283
- Hallbut, fishery, 1888-1966, eastern Pacific, 13820
- Halides:
hydrogen, use in producing dispersion strengthened chromium by ball-milling, 1127
metal, vapor pressures, 16105
- Hall, A. M., metallurgy, behavior, and application of 18-percent nickel maraging steels, 4697
- Hall, Albert W., three-track runway and taxiway profiles measured at international airports A and B, 16187
- Hall, Annie L., relief, 387
- Hall, David A., thermal evaluation of polyvinylchloride exposure suit (Empress) and comparison with present submarine deck exposure suit, 920
- Hall, Evelyn, relief, 387
- Hall, Franklin P., supply and demand for energy in United States by States and regions, 1960 and 1965, data, utility electricity, 5932
- Hall, Gaylord L.:
improved illumination of dental treatment room, 11900
stannous fluoride (0.1%) mouthwash study, 3697
- Hall, Gordon R., recirculation effects produced by pair of heated jets impinging on ground plane, 8590
- Hall, Jacquelyn H., psychological and social aspects of human tissue transplantation, 11631
- Hall, Richard:
commercial floriculture and related products, analysis of purchases and buyers, 10487
statistical supplement, 16546
- Hall effect:
Hall-effect magnetometers in scientific rocket payloads, 6919
use of time-shared computer system to control experiment, 17265
- Hallam power reactor, see Reactors (atomic).
- Hallin, William E., soil moisture tension variation on cutovers in southwestern Oregon, 4327
- Hallmark (periodical), 2950
- Hallack, Hiram, sawing to reduce warp of lodgepole pine studs, 11181
- Hallcock, James N., Fourier analysis by method of selected ordinates, 7267
- Halls Mill Creek:
Mobile, Ala.—
food plain information, 9681
floods, how to avoid damage, 12531
- Hallucinations and illusions, special disorientation and illusions related to dynamics of vestibular system, 7239

- Halothane, halothane anesthesia and post-operative hepatic necrosis, national study, 7344**
- Halper, Harriet J., Federal revenue and expenditure, estimates for States and regions, etc., 1701**
- Hambright, Thea Z., comparability of marital status, race, nativity, and country of origin on death certificate and matching census record, 10336**
- Hamden, Conn.:**
flood plain information, 9679
floods, how to avoid damage, 9704
- Hamer, E. A. G.:**
design, fabrication and testing of 1000 gallon per day tubular reverse osmosis pilot plant, 9966
reverse osmosis membrane regeneration, 15864
- Hamer, Harold A., effect of gravitational-model selection on accuracy of lunar orbit determination from short data arcs, 7278**
- Hamer, Walter J., theoretical mean activity coefficients of strong electrolytes on aqueous solution from 0 to 100 C, 2285**
- Hamil, David A., nomination, hearing, 5425**
- Hamilton, Douglas R., analysis of selected sigma-t surfaces in Indian Ocean, 13217**
- Hamilton, Horace E.:**
radioprotection of—
primates with 2- (1-decylamino) ethanethiosulfuric acid in dimethyl sulfoxide, 13628
rodents with papin, 10532
stress response as predictor of radiosensitivity in primates, 6419
- Hamilton, Robert W., jr., biochemical and metabolic effects of 6-month exposure of small animals of helium-oxygen atmosphere, 17197**
- Hamilton, Vernon L., soil survey of Haskell County, Kans., 2463**
- Hamilton County, Tenn., forest inventory statistics, 11743**
- Hammers, safe work guide, 5891**
- Hampton, Va.**
area wage survey, 2110
flood plain information, 12453
floods, how to avoid damage, 12501
- Hampton National Historic Site, general information, 10203**
- Hamrock, Bernard J., incompressibly lubricated Rayleigh step journal bearing, infinite-length solution, 1096**
- Hand grenades, see Grenades.**
- Hand tools:**
Federal item identification guides for supply cataloging, supplements, 2843
safety in industry, instructor outline, 5890
trade and tariff information, summaries, 1464
- Handbooks, see names of departments, etc., issuing handbooks—also subjects.**
- Handicapped:**
buildings financed with Federal funds, design and construction to be accessible and usable for the physically handicapped, 16407
children—
blind, etc., home and school programs, developments and trends, 6903
children have a potential, Andrews AFB 10001st Composite Wing Program, directory, 7630
early education assistance act, policies and procedures, 6888
education—
new and expanded programs, 6882
preparation of professional personnel manual, 15639
scholarship program, summer 1969, academic year, 5553
selected projects under P.L. 89-313, and title 6-A, ESEA, 14143
dependents of members of uniformed services, benefits, 757
- Handicapped—Continued**
designing public transportation for use by the handicapped, 10282
education—extend programs, elementary and secondary education act amendments of 1969—
hearings, 5372, 6907, 15473, 16891
reports, 6395, 7891
handicapped children, contributions of title 3 program, 9648
problems in inner city (remarks), 14132
employment—
Federal employment, the handicapped speak, conference highlights, 283
opportunities through vocational rehabilitation (remarks), 1319
remarks, 8537
financial assistance, programs, 1978
insurance industry, working with and employing the handicapped, panel presentation, 2400
Mexican-American children, improving educational opportunities, 8171
mobility for handicapped students, 1367
opportunities for hard of hearing and the deaf, 3912, 14847
performance, story of the handicapped (periodical), 3247
physically, selective placement in Federal civil service employment, handbook, 15142
placement—
programs, coordinator's scoreboard (periodical), 2705
review, coordinator's scoreboard, 15136
prevalence of selected impairments July 1963-June 1965, United States, 1352
programs for the handicapped (periodical), 3338
selected legislation relating to, summary, 5733
seriously handicapped and voluntary health agency, proceedings of panel discussion, 1320
travelers, guidebooks, 1311
workers in sheltered workshops, special minimum wages, 1489
see also Disabled.
- Handicapped Children, National Advisory Committee on, see National Advisory Committee on Handicapped Children.**
- Handicapped, National Center on Educational Media and Materials for, see National Center on Educational Media and Materials for the Handicapped.**
- Handkerchiefs, industry in Puerto Rico, data pertinent to review of minimum wage rates, 11772**
- Handle yourself with care, 5018, 6353**
- Handles, plastic mattress handles from Canada, determination of no injury to U.S. industry, 16493**
- Handley, William J., nomination, hearing, 8065**
- Handling equipment:**
aircraft, ground, Federal item identification guides for supply cataloging, supplements, 2850
Federal item identification guides for supply cataloging, supplements, 2842
weapon packaging, handling, storage and transportation preparation, performance and compatibility requirements, military standard, 549
- Handy, W. C., 6-cent commemorative postage stamp (poster), 7397**
- Hanish, S.:**
tables of—
associated Legendre functions of first and second kind of very large degree with argument near unity, 13275
eigenvalues of wave equation in prolate spheroidal coordinates, 14743
- Hanks, Nancy, nomination, hearing, 16893**
- Hanle, William O., relief, 8016, 13588**

- Hann, R. A., longitudinal shrinkage in 7 species, 12697
- Hannaford, Mary M., characteristics of persons with corrective lenses, 10339
- Hannah, Peter R., topography and soil relations for white and black oak in southern Indiana, 4325
- Hannold, Thomas L., flashbulb spotting round for testing proximity fuzes, 14763
- Hanrahan, Donald J., theoretical and experimental study of AC losses of high field superconductor and implications for power applications, 13285
- Hansen, Edward A., snow accumulation and melt in demonstration cuttings of ponderosa pine in central Arizona, 1919
- Hansen, Grant, nomination, hearings, 5427
- Hansen, Wallace R., geologic story of Uinta Mountains, 8340
- Hansen's lunar theory, *see* Moon.
- Hanson, Arthur, soil survey of Collin County, Tex., 13444
- Hanson, Morgan P., tensile and cyclic fatigue properties of graphite filament-wound pressure vessels at ambient and cryogenic temperatures, 13129
- Happ, W. W., examples of coding schemes based on strategic value, 4707
- Happel, Ralph, Old Salem Church, Chancelorsville Campaign, 8731
- Haratz, David, memory element flip-flop input equations, 1570
- Harbor Beach, Mich., currents, 903
- Harbor craft, marine crewmen's handbook, Army technical manual, change, 6445
- Harbor Creek, Pa., railroad accident, report, 11085
- Harbor Survey Assistance program, survey of Puerto Limon, Costa Rica, 13256
- Harbor workers, *see* Longshoremen.
- Harbors:
- flood control—
 - and river basin monetary authorizations, 1968, hearings, 415
 - projects in Hawaii, on-site inspection, report, 4097
 - improvements, laws relating to, compilation, 6569
 - Ohio River small boat harbors, ramps, landings, facilities, etc., 9710-11
 - ports of Philadelphia, a look to the future (remarks), 16050
 - waterborne commerce, calendar year, 1823, 8182-84, 12556
 - see also* names of harbors or places where located.
- Hard, J. S., hemlock sawfly in southeast Alaska, 4328
- Hard core, supervising the hard core, management guidelines, 16004
- Hard core unemployed, *see* Hard core.
- Hard-of-hearing, *see* Deaf.
- Hardin, Clifford M.:
- nomination, hearing, 4068
 - remarks, Feb. 17, 1969, 7614
- Hardware:
- builders', Army technical manual, 176
 - Federal item identification guides for supply cataloging, supplements, 2848
 - high-performance turboalternator and associated hardware, design of backup gas bearings, 5984
 - retailing, bibliography, 1379
 - space, microbiological examination, NASA standard procedures, 1045
 - standard interchange codes and media, information interchange—
 - and related media standards, implementation of code, 7320
 - code, 6039
 - perforated tape code, 6040
 - recorded magnetic code, 6011
 - trade and tariff information, summaries, 1163
- Hardwoods:
- Appalachian, for pallets, effect of fabrication variables and timber characteristics on performance, 17038
 - in crowded shelterbelts, release benefits, 9867
 - northern reliability of tree-height measurements in stands, 7009
 - photoguide to patterns of discoloration and decay in living northern hardwood trees, 17042
 - upland central, even-aged silviculture, 5926
 - vencer—
 - production opportunities in Tennessee Valley, 7546
 - timber volume in upper Michigan, 11173
- Hardy, Edward P., Jr., Health and Safety Laboratory fallout program, quarterly summary reports, 187, 5154
- Hardy, Gordon H., detailed study of manual backup control systems for Saturn V launch vehicle, 11473
- Hardy, Kenneth A., effects of laboratory reprocessing of silver phosphate glass microdosimeters, 3703
- Harclip, U.S. facilities providing cleft lip services, National Institute of Dental Research directory, 16260
- Hargis, Bryan J., evaluation surveys, coverage check, 1964 census of agriculture, 15121
- Hargrove, James W., nomination on, hearing, 5464
- Harkin, John M., lignin and its uses, 17018
- Harlem, Gudmund, speech, May 1, 1969, 10289
- Harlee, John:
- addresses, etc.—
 - Sept. 24, 1968, 1869
 - Nov. 9, 1968, 5610
 - Dec. 19, 1968, 1870
 - Apr. 10, 1969, 8209
 - June 17, 1969, 11065
 - Aug. 16, 1969, 14208
- Harmon, F. N., chip-bud method of propagating vinifera grape varieties on rootstocks, 14996
- Harmonic analysis, precipitation, 1566
- Harmen, Lynn, determination of channel capacity of reaches of Ash and Berenda Sloughs, distributary channels of Chowchilla River, Madera County, Calif., 1963
- Harnessed, air bag and inertia reel/inverted-Yoke torso harness, preliminary primate tests with experimental impact protection with advanced restraint systems, 16636
- Harnett, William M., American painting, 6-cent commemorative postage stamp (poster), 17321
- Haronles, George G., radiometric techniques applicable to measurement of solar activity and atmospheric attenuation at millimeter wavelengths, 10155
- Harpacticoida, *see* Copepods.
- Harper, John W., simultaneous determination of ⁵⁹Fe, ⁵¹Cr, and ¹²⁵I, using gamma spectrometer, 89
- Harper, M. Dean, soil survey of Washington County, Ark., 10384
- Harper, William B., natural gas liquids, 971
- Harpeth River, flood plain information, 12460
- Harrell, E. A., rapid method of marking corn earworm moths with dyes for release studies, 1497
- Harrell, William A., educational reform in Brazil, 1961 law, 1808
- Harrington, Richard F., analysis of terrain bias error in planetary radar altimeter, 10136
- Harris, A. S., Alaska cedar, bibliography with abstracts, 8308
- Harris, Clarence, egg grading and processing plant for high-volume production, 6384

- Harris, D. D.:
evaporation study at Warm Springs Reservoir, Oreg., 12769
Willamette River at Lambert Bend, Oreg., 3937
- Harris, Daniel, staff study of campus riots and disorders, Oct. 1967-May 1969, 14037
- Harris, Frederick B.:
prayers offered in Senate, 89th and 90th Congresses, 15351
print as Senate document, report, 8022
- Harris, J. C., optimization of JP-4 fuel emulsions and development of design concepts for their demulsification, 5129
- Harris, J. Donald, use of circumaural earphones in audiometry, 926
- Harris, Wilber, relief, 16760
- Harrison, Gordon F., Senate manual containing standing rules, orders, laws, and resolutions affecting business of Senate, etc., 9378
- Harrison, Jack E., mineral resources of Mission Mountains primitive area, Missoula and Lake Counties, Mont., 4350
- Harrison, W., time series from beach environment, 611
- Harrison, William Henry, letters of application and recommendation during administration, pamphlet to accompany microcopy, 1162
- Harry Diamond Laboratories, HPL technical disclosure bulletins, 14761
- Hart, Elizabeth F., I & N reporter, 2966
- Hart, Ellis D., radioactive sediment tracer tests, Houston Ship Channel, Houston, Tex., 5571
- Hart, Samuel A., solid waste management, composting, European activity and American potential, 6207
- Hart, William E., satellite navigation, aid to ocean surveying, 13239
- Harter, Joseph M., Indonesian, newspaper reader, 1443
- Hartford, Conn.:
churches, inter-faith opportunity center, 10457
elementary program in compensatory education—
intensive reading instructional teams, 6870
Project Concern, 6873
Interstate Air Quality Control Region, report for consultation, 8813
- Hartman, Bryce O., psychomotor effects of low doses of acetazolamide to aid accommodation of men to altitude, 99
- Hartman quadrangle, Ark., geology, 5717
- Hartree-Fock calculations, with Wood-Saxon basis functions, 6014
- Hartsack, Albert W., jr., automatic device for dividing and packaging light trap insect catches according to time intervals, 5
- Hartwell, John W., tale, soapstone, and pyrophyllite, 16107
- Harvest Festival, designate, report, 16848
- Harvesting, how mechanization of harvesting is affecting jobs, 8560
- Harvesting machinery, apples, shaker stroke, relation of frequency and length to mechanical harvesting, 6355
- Harvey, E. B., atlas of domestic turkey, myology and osteology, 196
- Hasbrook, A. Howard:
comparison of effects of peripheral vision cues on pilot performance during instrument flight in dissimilar aircraft simulators, 10579
peripheral vision cues, effect on pilot performance, 5194
pilot response to peripheral vision cues during instrument flying tests, 6481
- Hashin, Z., static and dynamic viscoelastic behavior of fiber reinforced materials and structures, 1590
- Haskell County, Kans., soil survey report, 2463
- Haslett, J. C., two-channel photometer for use in small sounding rockets, 5578
- Hatch, Charles E., jr., dependencies (out-buildings) of Dudley Digges House, 13184
- Hatcheries, see Chickens—Fish and fisheries.—Poultry.—Turkeys.
- Hatchie National Wildlife Refuge, general information, 2478
- Hathaway, Dale E., people of rural America, 3862
- Hats, see Headgear.
- Hatten, James, health insurance for aged, number of participating health facilities, 11668
- Hauser, J. P., VLF effective ground conductivity map of Canada and Greenland with revisions derived from propagation data, 10269
- Havens, Richard, chemical stabilization of uranium tailings at Tuba City, Ariz., 14552
- Haverhill, Mass., area wage survey, 16018
- Hawaii:
Agricultural Stabilization and Conservation Service, annual reports, 11820-821
bathymetry of region (POLI-421-2) north of Hawaiian Ridge, 8187
census of business, 1967—
retail statistics, 9101
selected services, 16646
wholesale trade, 15101
Center for Cultural and Technical Interchange between East and West, activities, GAO report, 9872
climatological data, 2662
coast pilot, 297
supplement, 7787
electric rate book, 4265
Federal outlays, reports of Federal Government's impact by State and county, 9544, 9594
fisheries, annual summary, 3914
four pine species, early growth and development, 17034
geology of Midway area (series), 14353, 15807
investigation of floods in Hawaii, progress report, 9901, 15800
Kilauea Volcano, Oct. 1963 eruption, 15804
live-bait fishery for skipjack tuna, some operational aspects, 1671
mineral industry, minerals yearbook chapter, 953
nautical chart catalog, 7789
precipitation data, hourly, 2962
river and harbor, flood control, and beach erosion control projects, on-site inspection report, 4097
tide tables, high and low water predictions, 6532
warning facilities chart, 14967
water resources data, 8367
watersheds, survey, plan of work, 15001
Hawaiian Islands National Wildlife Refuge, general information, 16451
Hawes, J. D., analysis of Japanese current meter arrays, 18222
Hawley, C. C.:
distribution of beryllium, tin and tungsten in Lake George area, Colo., 738
geology and beryllium deposits of Lake George (or Badger Flats) beryllium area, Park and Jefferson Counties, Colo., 12781
Hawthorne, J. Russell:
hot cell equipment developed for remote tension test specimen evaluations at NREL, 6144
initial assessments of notch ductility behavior of A533 pressure vessel steel with neutron irradiation, 6145
Hay, Carolyn R., mobility of population of United States, Mar. 1967-Mar. 1968, 12013
Hay, George C., experiments with icephobic surfaces, 13644

INDEX 1969

- Hay, Sylvia, classification of congenital malformations, 4874
- Haydon, George W., technical considerations in selection of optimum frequencies for high frequency sky-wave communication services, 12568
- Hayduk, Robert J., response of infinite elastic plate to axisymmetric initial velocity distributions with applications to hypervelocity impact, 8621
- Hayes, Jack, science for better living, yearbook of agriculture, 5065, 5321
- Hayes, Robert C., labor law and practice in Argentina, 8546
- Hayes, Wallace D., sonic boom propagation in stratified atmosphere with computer program, 7235
- Haynsworth, Clement F., Jr., nomination, hearings, 15466
- Hazardous substances:
act, laws, compilation, 5458
child protection under Federal hazardous substances act
 hearings, 10793, 12291
 reports, 10859, 15228, 15252
dangers of flammable clothing, 13336
DoD contractors' safety manual, 1784
Federal hazardous substances act, amend—
 hearings, 10793, 12291
 reports, 10859, 15228, 15252
radioactive waste disposal no longer hazardous, USSR study, 12899
shipment, study of uniform reporting system for all modes of transportation in reporting incidents and accidents, 14721
symbols for packages and containers for hazardous industrial chemicals and materials, military standard, 14108
transportation of dangerous articles, etc., Federal aviation regulations, 4241, 14186
- IDL, see Harry Diamond Laboratories.
- Head:
 position, influence on habituation of vertical nystagmus, 209
 positioning for Panorex X-ray machine, 928
 visual acuity under water without face mask, 16069
- Head Start Project, see Project Head Start.
- Headgear, Army to 1854, catalog of Army uniforms in collections of Smithsonian Institution, 8707
- Headsets:
 electrical, Federal item identification guide 16915
 hi-fi earphones for submarine sonar, consideration, 16065
 use of circumaural earphones in audiometry, 926
- Health:
 aerospace medicine, laser health hazards control, 6411
 aged, health aspects of economics of aging, working paper, 14012
 allied health professions training act of 1966, amended, reports, 8683, 13167
 allied professions program, traineeship grants for advanced training, 2308
 arthropods, reptiles, birds and mammals of public health significance, pictorial keys, 14799
 atom and your health (remarks), 15078
 characteristics by color, differentials, 16375
 cigarette smoking may be hazardous to your health (poster), 11608
 coal miners, improve working conditions—
 hearings, 9489, 10775, 10912, 12213, 12310, 14053, 15470
 reports, 15390, 16789, 16795
- Health—Continued
 community health—
 dental health in community care programs, small fry smiles, guide for teaching, 14696
 projects, approved, classification by broad areas of activity, 14783
 Community Health Service, publications catalog, 13334
 community services for persons with drinking problems, major issues in developing, 4898
 consequences of smoking, Public Health Service review, 17339
 supplement, 13346
 consumer health services, Public Health Service-Labor Seminar, papers, 6198
 control environmental factors (remarks), 13365
 data on national health resources, 13281
 documents and committee reports, 6210, 7432, 10337
 Economic Opportunity Office health services programs—
 hearings, 12224
 report, 15296
 18-month calendar of national meetings, 1969-70, list, 2420
 emergency food and medical services, OEO, 6852
 emergency health series, 4877, 10301, 13341, 14788, 16341
 emergency health services digest, 16342
 emergency health services, glossary, 14788
 employment of mentally restored, involvement for community organizations (periodical), 3009
 environmental—
 environment and health planning (address), 13343
 environment in which we live (remarks), 10329
 environmental crisis (remarks), 13367
 planning guide, 7417
 preserve (remarks), 11634
 problems (addresses), 11627, 13364
 protection (address), 10302
 sciences, 7343
 environmental health series—
 air pollution, 4878, 10303, 17336
 radiological health, 8803, 11612-613, 13344, 14790
 urban and industrial health, 1333, 2415
 water supply and pollution control, 4879, 14791
 examination survey, factors related to response, 13379
 examinations and automated laboratory, personal medicine, 2416
 expenditures—
 national, fiscal and calendar years, 17382
 public and private, 2455
 experiments, demonstrations, and exhibits, and smoking, 2430
 facilities—
 construction and modernization, of grants program, extend, hearing, 7965
 resources, and care, National Advisory Commission on Health Facilities, report, 2401
 facts on smoking, tobacco, and health, 4880
 family health survey, 16656
 Federal coal mine health and safety act—
 recommendations, 365
 reports, 15390, 16789
 Federal employee health series, 1334-35, 13345, 16343
 global community health, career development program, 11607
 Head Start child development centers, physician and Project Head Start, 12403
 health and safety in Federal construction, promote, hearings, 9482

Health—Continued

health and safety laws and codes, directory and index, 12961
 health and smoking, facts, 11615
 health aspects of pesticides, abstract bulletin, 2956
 health care in America, 5447
 Health Examination Survey plan and operation for U.S. youths 12-17 years of age, 14811
 health information series, 4882, 8803-6, 10305-306, 16346
 health interview survey, current statistics, 10338
 health manpower source book, 16256
 health resources statistics, 2417
 Hill-Burton health facilities series, 13347
 home health benefits under medicare, 10375
 homemaker-home health aid in health services, workshop report, 10310
 Indians—
 miscellaneous laws, compilation, 5458
 Public Health Service program, 8808, 13349
 report to the first Americans, 13377
 role of dentist, 11609
 trends and services, 10311
 industrial, publications, price list, 4866
 international health, education, and labor programs, hearings, 495A
 Lithuanian public health workers confer, 5875
 longshoring, regulations, 11333
 manpower, 1965-67, United States, 1355
 medical and health related sciences thesaurus, 8697
 medical libraries and health communications assistance amendments of 1969, report, 16863
 migrant health services, grants, authorization, extend, hearings, 16820
 mineral industry health program technical progress report, 17179
 national expenditures, 16418
 necessities of food, medical assistance, etc., study, authorization, reports, 1727, 5420
 occupational health—
 Federal units, administrative guide, 11602
 new approaches to old problems (address), 16364
 Occupational Safety and Health Bureau, general information, 16351
 occupational safety and health problems (remarks), 13366
 partnership for health, 6195
 planning, role of urban planner, 4902
 premise and home environmental health survey, Papago Indian Reservation, 13361
 professions—
 educational improvement grants, 4883
 scholarship program, career information, 14689
 student loan program, guide for repayment, deferment, cancellation, 1201
 promote in building trades and construction industry in Federal and federally financed construction projects—
 hearings, 10778
 law, 15202
 reports, 9293, 9322, 12269
 public—
 code of Federal regulations, 11128
 comprehensive health services projects, guidelines for development, 8804
 educator, examination announcement, 5272
 electronic products, radiation emission, annual report, 10694
 engineering abstracts, index, 2425
 laws, compilation, 493, 5458
 mental health considerations, 14690

Health—Continued

public—continued
 mercury, donation of surplus for educational and health purposes, Health, Education, and Welfare Dept., GAO report, 7928
 National Conference on Mental Health in Public Health Training, proceedings, 10326
 program guide, diabetes control, 10299
 public health bibliography series, 4893, 11632, 13362
 public health monograph series, 1346
 public health reports, 3341
 public protection with respect to cigarette smoking etc.—
 hearings, 9356-59
 reports, 10717, 10725
 RSPSR public health organizations, tasks, 5840
 services, grants to States, July 1, 1968 regulations, 2423
 State salary ranges of positions, 762, 11259
 public—
 USSR—
 planning and financing, 15932
 work of government and research organizations, study, 15968
 Public health cigarette smoking act of 1969, reports, 10717, 10725
 Public Health Service—
 act, amend, hearings, 14056
 grants, etc., funds—
 construction of research facilities, 1347, 16264
 formula, project grants and regional medical planning, grants, etc., 1348
 research, 11633
 summary tables and graphic highlights, 4894
 publications, price list, 4868
 radiological health—
 data and reports (periodical), 3363
 guidelines, 11612
 particle accelerator safety manual, 6192
 programs, directory of personnel responsible, 7416, 13338
 recent translations, selected list, 3368
 regional health authorities, 1966, directory, 4876
 research facilities construction program, Surgeon General's report, 3950
 research laboratory design, 1193
 respect for drugs, community service program, 5966
 sector, changing patterns of costs and structures—
 address, 14462
 charts, 16027
 services—
 and surveys, research relating to children, 6511, 15124
 costs and delivery to older Americans, hearings, 8050
 development project grants, policy statement, 6195
 family use, United States, 13380
 for Federal employees, prospectus, 1334
 handicapped dependents of members of uniformed services, 757
 migrant, 1969 directory of projects assisted by Public Health Service grants, 10300
 neighborhood residents in comprehensive programs, introductory guide to training, 9636
 shipbuilding regulations, 887
 smoking and health—
 bibliographical bulletin (periodical), 6206
 bibliography, 13362
 smoking, tobacco, and health, information, 13376

Health— Continued

Soviet public health (USSR periodical), translations, 3448

statistics—
 analytical studies, 17358
 data evaluation and methods research, 6208-9, 7431, 10336, 11641-642, 13379
 data from national health survey, 1852-54, 2432-33, 6211, 7433, 8822, 10338-339, 11643-644, 13380, 16375-377
 data from National Vital Statistics System, 6212 13, 16378, 17360
 data on national health resources, 1355
 programs and collection procedures, 14811
 United States National Committee on Vital and Health Statistics, report, 6210

toward a social report, 5736

traineeships for professional health personnel under public health traineeship program, 11545

trends in negotiated health plans, broader coverage, higher quality care, 11352

USSR—
 public health and medicine, 11324
 Soviet public health reviewed, 5835
 vital and health statistics, 1970 census plans, study group report of Public Health Conference on Records and Statistics, 7432
 vital and health statistics series, PHS publication 1000, current listing, 14785
 voluntary health agency and seriously handicapped, proceedings of panel discussion, 1320
 voluntary health and welfare agencies, fund-raising within Federal service, manual, 3101
 voluntary health organizations, future role (address), 1985

see also Medical care—Mental health.

Health aides, homemaker/home health aide, recommendations for training and services, 10327

Health and Safety Division, TVA, annual report, 13502

Health and Safety Laboratory :
 AEC fallout program, quarterly summary report, 187, 5154, 7683, 13694
 appendix, 188, 5155, 7684, 13695

Health boards and departments, directory, State, territorial and regional health authorities, 4876

Health centers :
 glaucoma screening, 16343
 health facilities, number participating in health insurance program for the aged, 11668
 health services research centers, research grant program, 11617
 neighborhood, Federal programs which may support training of neighborhood residents for jobs, 6850
 nursing homes and related health care facilities, industry manpower survey, 17419
 Public Health Service Indian and Alaska native hospitals, contract hospitals, field health, annual statistical review, 14780
 West Oakland Health Center, dedication (remarks), 12395

Health, Education, and Welfare Department :
 accident prevention program (remarks), 11635, 16335
 achievements, challenges, goals, etc., Secretary's letter, 1979
 aircraft engine exhaust emissions, nature and control, report, 5392
 print as Senate document, report, 6756
 annual report, 9939
 appropriations, 1970—
 hearings, 10766, 16878
 report, 12197

Health, Education, and Welfare Department— Continued

Assistant Secretary, nomination of—
 Allen, James E., jr., hearing, 8083
 Ezeberg, Roger O., hearing, 12314

audit function, development and status, GAO observations, 8332

automated central payroll system, improvements needed, GAO report, 4342

cities handbook, 12803

Commissioner on Aging, nomination of John B. Martin, jr., hearing, 9486

community action program service activities, Economic Opportunity Office, variations in cost and performance, GAO review, 15788

consumer newsletter, 9941

DHEW obligations to medical schools, 1968 fiscal year, 17276

donation of surplus mercury for educational and public health purposes, GAO report, 7028

field directory, 760

findings—
 on cost standards of drugs for which payments are made under social security amendments of 1967, 3967
 with respect to coverage of drugs under title 18, social security, act, 3966

forum papers, achievements and challenges, 4373

health programs—
 HEW oversight, hearing, 6719
 jurisdiction, organization, and structure, hearing, 6719

HEW and civil rights, 9940

improving environment for science, Career Service Board for Science Report, 4375

Indian health services and facilities, appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793

medicare payments for services of supervisor and teaching physicians at Cook County Hospital, Chicago, Ill., GAO report, 17055

mental retardation—
 activities, 5731
 grants awarded 1968, list, construction, training, and other, 15820
 publications, list, 8387

monitoring of special review of aid to families with dependent children in New York City, GAO reports, 16827, 17056

nutrition and human needs, statements by HEW officials, hearings, 5463

obligations to medical schools, 1189

parents as partners in programs for children and youth, 761

press releases, 3294

program analysis series, 4377-79

programs for benefit of disadvantaged preschool children, GAO report, 5687

progress in prevention and control of air pollution, report, 5394

print as Senate document, report, 6758

regional offices, Division of Library Programs, partnership for library progress, 10984

rehabilitation of disabled, need to improve procedures for reporting individuals as rehabilitated, GAO report, 715

reorganization, hearings, index, 1739

Secretary, nomination of Robert H. Finch, hearing, 4076

Surplus Property Utilization Office, regional representatives, directory, 11256

telephone directory, 5729, 11255

this is HEW, general information, 5735

U.S. participation in World Health Organization, GAO report, 1953

visitors information center, general information, 12804

Health, Education, and Welfare Department—Continued
 work experience and training project, administration and effectiveness—
 Jackson County, Mo., GAO report, 12729
 Kent County, Mich., GAO report, 7024
 Lake County, Ind., GAO report, 8327
 Los Angeles County, Calif., GAO report, 11203
 Maricopa County, Ariz., GAO report, 8328
 Wayne County, Mich., GAO report, 12731

Health insurance:
 accrued cost of SMI program for 1966 and 1967, 14862

aged persons—
 amounts reimbursed by States, 2453
 directory of providers of services—
 extended care facilities, 1389
 home health agencies, 1389A
 hospitals, 1390
 independent laboratories, 1391
 under social security, July 1, 1967, number of persons insured, 4936

care costs, Secretary's regional conference, 12805

consumer credit insurance transactions, protect from abuses relative to excessive charges, hearings, 15418

coverage of adults who died in 1964 or 1965, 17360

coverage of disabled, 1395

current medicare survey report, medical insurance sample, prescription drugs, 10367, 11666

disabled, protection under social security, report, 5730

Federal employees—
 and annuitants, biweekly premium cost, Government to pay one-half, hearings, 9487
 Federal personnel manual, supp., 2861

Federal health insurance for the aged, social security rulings, 16413

for the aged—
 amounts reimbursed by State and county, July 1966-Dec. 1967, 11665
 number of participating health facilities, 11668

health insurance for the aged, HIM (series), 2452

health insurance statistics, current medicare survey report, CMS series, 4933-34, 10367, 11666-667, 17381

household workers and their employers, statistics, 10372

independent plans in 1968, preliminary estimates, 16419

medicare—
 coverage of drugs, Task Force on Prescription Drugs, interim report, 4381
 current survey report, medical insurance sample, 4934, 11667
 drugs, coverage under title 18, social security act, findings of Health, Education, and Welfare Dept., 3966
 for people 65 or older, brief explanation, 6238, 10376
 home health benefits, 10375
 important facts about medical insurance, 6236
 medical insurance—
 benefits under, important facts, 7461
 \$50 annual deductible, 16420
 under social security, handbook, 7463
 Spanish edition, 10380
 provider reimbursement manual, revision, 2452
 supplementary medical insurance premium rate, statement, 5732
 use of general hospitals by aged psychiatric patients, study, 8855

Health insurance—Continued
 medicare—continued
 utilization of short-stay hospitals, selected characteristics of discharged patients, 6232
 your health insurance, 7460
 private expenditures for services by region and state per capita, 13437
 SMI benefit experience for 1966-68 as shown on payment records, 14861
 SMI program on cash basis, current experience, 14863
 social security rulings, 3442, 10373
 statistics, HIM series, 2453, 4935-36, 6232, 8855, 11668
 veterans coverage, survey, 7979
 your social security, 7462
see also Medical care—Old-age, survivors, disability, and health insurance.

Health Program Systems Center, current project summaries, published monograph abstracts, 8802

Health Services and Mental Health Administration:
 appropriations, 1970 —
 hearings, 10766
 report, 12197
 grants-in-aid and other financial assistance, programs administered, 16344
 public advisory committees, authority, structure and functions, 17340

Health Services Laboratory, annual report, 9068

Health Week, National Family, *see* National Family Health Week.

Heaney, Judith W., Vietnam, bibliography, 4426

Hearing:
 comparison of 7 systems for air conduction audiometry from 8-20 KC/S, 13000
 feedback and helium-speech, 5573
 hearing status and ear examination, adults, United States, 1960-62, findings, 1354
 pure-tone air conduction audiogram, 16571
 underwater, in man, sensitivity, 13002
 use of circumaural earphones in audiometry, 926
see also Echolocation (physiology).

Hearn, George H.:
 nomination, hearings, 1737

remarks—
 Oct. 3, 1968, 639
 Jan. 28, 1969, 4259
 Mar. 27, 1969, 6945
 May 7, 1969, 8210
 Sept. 4, 1969, 14210
 Oct. 21, 1969, 16992
 Nov. 3-4, 1969, 16993

Hearn, Jackson B.:
 Foreign trade regulations of—
 Ceylon, 5287
 Iran, 10656

Heart:
 automatic detection and display of arrhythmias in long-term ECG tape recordings, 9011
 cardiac catheters, simple method for percutaneous introduction, 14497
 cardiac function algorithm, constructing, USSR study, 12908
 conditioned cardiac reflexes, and functional morphological state of cortical neurons when exposed to superhigh frequency electromagnetic fields, USSR study, 8512
 effects of right and left vagal cooling on heart rate, 5084
 heart-lung preparation performance, effect of blood pH and CO₂ tension, 2130
 myocardial cells, electric activity and contractions, effect of tetrodotoxin, USSR study, 11318
 rat heart, effect of monoamine oxidase and diamine oxidase on norepinephrine and histamine, 11903

- Heart—Continued
rate and task performance, effects of cognitive appraisal of stress, 9088
rhythm disorders, automatic recognition manifested by variations of RR and PR intervals of ECG, USSR study, 837
see also Artificial heart.
- Heart diseases:
angina pectoris uncomplicated by sex, age and level of characteristic, etc., Framingham study, 8686
congestive heart failure by sex, age and level of characteristic, etc., Framingham study, 8692
coronary nursing, outlook, proceedings of conference, 13360
death from coronary heart disease by sex, age and level of characteristic, etc., Framingham study, 8694
endocarditis, bibliography, 13342
interviewing guides for specific disabilities, 8179
non-sudden death from coronary heart disease by sex, age and level of characteristic, etc., Framingham study, 8688
regional medical programs, progress report, 4891
sudden death from coronary heart disease by sex, age and level of characteristic, etc., Framingham study, 8687
- Heart rot, balsam fir, 11163
- Heat:
abundant nuclear energy, symposium proceedings, 9065
body armor in hot humid environment—studies in heat acclimatized men, 16057
studies in unacclimatized men, 14512
calculation of elevated-temperature cyclic life considering low-cycle fatigue and creep, 13106
comparison of Brayton and Rankin cycle, magnetogasdynamic space-power generation systems, 6022
effects on disposal of effluents from desalination plants, 9973
electrical resistivity of hyperstoichiometric zirconium, carbide materials to 2,000° C, 6475
external thermal radiation heat loads and temperatures of spacecraft orbiting the planets or the moon, computer program for calculating, 6023
heat and entropies of transport of ions in aqueous saline systems, 7059
heat wave, information, safety rules, etc., 11029
magnetothermal oscillations in pressure-annealed pyrolytic graphite, 17236
removal of copper from steel scrap by thermal treatment, 4640
sigma phase formation and its effect on stress-rupture properties of IN-100, 10122
thermal analysis of shadow shield and structural members in vacuum, 1099
thermal and radiation shielding of reactor vessel, USSR study, 12952
thermal studies of spacecraft, use of radiometer, 1136
thermal-vacuum test of flight model spacecraft, time required for adequate test, 2232
thermic compositions or charges, classification definitions, 1282
waste, problems of disposal from steam-electric plants, staff study, 12623
see also Heat transfer—Temperature—Thermal expansion.
- Heat exchangers:
design parameters and cost evaluation, computer usage, 4620, 11381
plate heat exchangers used for ultra-high-temperature pasteurization processes, performance tests, 6196
- Heat exchangers—Continued
simulated heat exchanger tube, fouling characteristics of ASTM Jet A fuel when heated to 700° F in, 2257
single tube-in-shell heat exchanger over range 1720° to 1980° F (1211 to 1355K), tests of sodium boiling, 11495
sodium-cooled reactors, performance evaluation, 13721
water-to-cryogenic hydrogen, heat transfer characteristics, 16178
- Heat flux, *see* Heat transfer.
- Heat of formation:
chromium carbides, 4639
gaseous positive ions, ionization potentials, appearance potentials, 10174
- Heat-of-hydration, test, precision of quartz crystal and mercury differential thermometers, 15665
- Heat pollution, *see* Water pollution.
- Heat shields:
heat-shield mass, effect of chemical state of pyrolysis gases on, 2265
planetary-entry-vehicle heat shields, radio-frequency transmission characteristics of candidate ablation materials, 2235
suspended surface coatings for heat shielding, USSR study, 15918
- Heat transfer:
and pressure distributions—
due to sinusoidal distortions on flat plate at Mach 20 in helium, 1123
inside hinge-line gap of wedge-flap combination at Mach number 10.4, 1126
and skin-friction data, summary and correlation, for hypersonic turbulent boundary layer on simple shapes, 11443
blunt-body stagnation-region flow with nongray radiation heat transfer, singular perturbation solution, 1148
coefficients—
and experimental stagnation-point velocity gradients for family of blunt bodies at Mach 8 and angles of attack, 11444
for hydrogen flowing through parallel hexagonal passages at surface temperatures to 2275 K, 4706
compressible turbulent boundary layers, calculation, 7237
convective coefficient variation around simulated rocket cooling tube section, 10117
convective coefficients from solution of conduction equation for wall separating 2 fluids, having oscillating temperature, 17253
distributions for blunted-cone, cone-frustum reentry configuration at Mach 10, 7299
empirical stagnation-point heat-transfer relation in several gas mixtures at high enthalpy levels, 1058
entry length for rocket meteorological radiation shield, 1019
graphite heat-transfer tubes of controlled permeability to steam, scale control, phase 2, 4402
heat-transfer and pressure distributions on spherically blunted 25° half-angle cone at Mach 8 and angles of attack up to 90°, 1056
heat transfer and pressures on 75° swept delta wing with trailing-edge flap at Mach 6 and angles of attack to 90°, 16171
impulsive motion on flat plate pulsed with uniform heat flux, 10151
laminar, and shear stress functions in equilibrium dissociated air approximate relations, errata, 1049
low-order classical Runge-Kutta formulas with stepsize control and their application to some heat transfer problems, 11501

Heat transfer—Continued

- radiating gray gases, temperature distributions, simple equations for calculating, 10141
- radiative and convective heating during atmospheric entry, 1007
- radiative thermal conductivity theory of equilibrium and stability of high-current self-compressed discharge in optically dense plasma, 15062
- shock precursor heating on radiative flux to blunt bodies, effect, 4680
- stagnation point heat and mass transfer at hypersonic speeds, linearized theory, 13078
- superthermal conductivity, heat tube, thermal transformer, USSR study, 2079
- tables and graphs of functions necessary for solving nonlinear constant area fin problems, 10119
- thermal conduction through evacuated idealized powder over temperature range of 100°-500° K, 7260
- thermal conductivity in semiconductors, electronic component, 1572
- thermal radiation—
 - blackbody, electromagnetic theory, and material properties, errata, 14595
 - exchange between surfaces and in enclosures, 10096
- three-phase, transient condensing with freezing on nonisothermal inclined plate, 13093
- throat heat transfer in rocket nozzles, use of energy thickness in prediction, 13131
- to windward side of fineness-ratio 2.9 cylinder with nearly spherical ends at Mach number of 6 and angles of attack of 50°, 70°, and 90°, 11466
- transient solidification outside cooled pipe with application to solar Brayton heat receiver, 1114
- transient temperature fields in shells, 11506
- water-to-cryogenic-hydrogen heat exchanger, characteristics, 16178
- see also* Heat.
- Heat treatment, of molybdenum-hafnium-carbon alloys, exploration study, 5997
- Heat wave, 11029
- Heaters, space, Federal item identification guide, 12358
- see also* Furnaces—Unit heaters.
- Heatherington, Donald F., remarks, Dec. 3, 1968, 6998
- Heating:
 - cyclic, and thermal shock, effects on hafnia stabilized with calcia, magnesia, and yttria, 14607
 - data-reduction technique for determining rapidly rising heating rates to thermally thick walls, 13103
 - home, systems, fuels, controls, 1503
 - induction heated plasmas, argon-tungsten and argon-uranium, experimental investigation of spectral emission characteristics, 8593
 - induction heating advances, applications to 5800° F, 8607
 - induction plasma heating, high power, low-frequency operation and pure hydrogen heating, 10083
 - initial radio-frequency gas heating experiments to simulate thermal environment in nuclear light bulk reactor, 8591
 - laminar heating-rate distributions of 15° cone at Mach number of 10.6, effects of angle of attack and bluntness, 16190
 - nonferrous metals removal from synthetic automobile scrap on heating in rotary kiln, 2177
 - R-F induction heated plasmas, theoretical investigations, 8592
 - see also* Aerodynamic heating—Electron heating.

Heating apparatus and supplies:

- current industrial reports, 2732, 3846-47
- equipment, Federal item identification guides for supply cataloging, supplements, 2845
- industrial plant equipment handbook, 5481
- Sweden, market for industrial heating equipment, 3894
- see also* Heaters.
- Heating mechanics, *see* Mechanics (persons).
- Heave response of plenum air cushion including passive and active control concepts, 8649
- Heavy metals, *see* Metals.
- Heavy water, thermodynamic properties of liquid H₂O and D₂O and their mixtures, 10138
- Hebert, J. O., Jr., study of 2 GHz electromagnetic wave propagation over optical paths in 3 geographical regions of United States, 17205
- Heck, Walter W., tobacco, sensitive monitor for photochemical air pollution, 13354
- Hedlund, Arnold, forest statistics for Mississippi counties, 11194
- Hedrick, James L.:
 - facts on smoking, tobacco, and health, 4880
 - smoking, tobacco, and health, 13376
- Hee, Olman:
 - review of mineral industries, 983
 - statistical analysis of U.S. demand for phosphate rock, potash, and nitrogen, 14529
- Heermann (destroyer DD-532):
 - loan, extension, agreement with Argentina, 6301
- Heffner, Hubert B., nomination, hearing, 12313
- Hefner, Lake, radio-physical studies, 1966-67, of evaporation, 12571
- Hegeman, Bernard A., relief, 7872, 13838, 13983
- Heidbreder, Elizabeth M., social security coverage of Federal personnel, 11669
- Heidmann, Marcus F., analysis of dynamic response of liquid jet atomization to acoustic oscillations, 13117
- Heien, Babette P., establishing business in France, 3896
- Heinstra, Norman W., effects of silt turbidity on behavior of juvenile largemouth bass and green sunfish, 7475
- Heindl, R. A., platinum-groups metals, 972
- Heine, Irwin M., maritime subsidies, 7195
- Heine, Lea, *me*, 14120
- Heinen, H. J., experimental leaching of gold from mine waste, 7220
- Held, Edward E.:
 - atoll soil types in relation to distribution of fallout radionuclides, 5183
 - gamma dose rates at Rongelap Atoll, 5182
- Helen Keller Memorial Week:
 - designate—
 - law, 10679
 - report, 8041
- Helicopters:
 - ASW helicopter effectiveness, increase through communications, training, 6134
 - Bell 204B external helitank, evaluation, 12679
 - box ejector for insect distribution from helicopter, 11791
 - certification and operations of scheduled air carriers with helicopters, Federal aviation regulations, change, 16979
 - CH-54, flying crane, small and large load-bearing pallets, design, development, fabrication, and testing, 1591
 - Chinook, CH-47A, engine load sharing, 3785
 - composite research aircraft—
 - hot cycle rotor/wing, 6450
 - tilt prop-rotor, 6451
 - contract-analog display in landing approaches, 10146

Helicopters—Continued

- flapwise bending moments on helicopter rotor blades, tables, procedures for estimating, 17204
- flight spectrum data, evaluation, 1589
- fluidic vortex valve servoactuator development, 15056
- height-velocity diagram showing effects of density altitude and gross weight, investigation, 1050
- light helicopter cargo hooks, brackets for, description, 11259
- lightweight, flight investigation, to study feasibility of fixed-collective-pitch auto rotations, 11476
- mechanical stability augmentation system, reliability evaluation, 11956
- map-of-earth maneuverability as identified by flight investigation, flying quality factors limiting roll control, 2240
- nature of rotor blade boundary layers, exploratory, study, 16602
- noise, blade slap, review and theoretical study, 1030
- passive, rotor isolation using Kaman dynamic antiresonant vibration isolator (DAVI), 10553
- rotor blades, classical flutter, 7669
- rotor downwash effects, 12680
- rotor instability at high forward speeds, prediction, 7668, 7670, 9053-54
- rotor noise—
 - computer program, description, 6454
 - studies, 6453
- rotors, method for analyzing aeroelastic stability in forward flight, 14568
- thin airfoils oscillating near stall, wind tunnel tests—
 - data, report, 6460
 - summary and evaluation, 6459
- transatlantic flight, endocrine-metabolic effects, 101
- UH-1, high-reduction-ratio transmission, installation, 11950
- UH-1A, crash-resistant flammable fluids system, development, 10554

Helogyro, see Spacecraft.

Heliostrations, working, description, USSR study, 12892

Heliports :

- Army airfield heliport—
 - operational and maintenance facilities, technical manual, 3779
 - pavements, evaluation, technical manual, 16600
 - rigid and overlay pavement design, technical manual, 177, 13662
- pavement reports, Army and Air Force emergency construction, 3780
- planning and design, theater of operations, Army technical manual, 174

Helium :

- and nitrogen as factor affecting decompression stress severity, 98
- arc, spectroscopic study, 16162
- bibliography, 7206
- compressibility—
 - data at 0°C and pressures to 800 atmospheres, 14551
 - factors for helium and carbon dioxide mixtures at 0°, 20°, 23°, and 35°C and to 900 psia, 5957
- gas, slightly ionized, experimental observation of oscillations described by continuity equations, 2250
- helium-oxygen—
 - atmosphere, biochemical and metabolic effects on small animals of 6-months exposure, 17197
 - environment, blood of subjects exposed at 7 atmospheres pressure, carbonic anhydrase analyses, 16061
 - mixture at simulated altitude, and room air at ground level, speech recordings in, comparison, 5083

Helium—Continued

- helium-oxygen—Continued
 - saturation and excursion dive to simulated depth of 900 feet, performance effects of increased ambient pressure, 8576
- helium-speech and auditory feedback, 8573
- intelligibility of helium-speech as function of speech-to-noise ratio, 7200
- large-angle pointed cones in helium at Mach numbers of 8 and 20, shock shapes and pressure distributions, 13120
- minerals yearbook chapter, 14528
- nonequilibrium cesium plasmas probed by multifrequency helium-neon laser, refractive index, particle density correlation, 11498
- penetration and spreading in Mach 2 airstream using delta wing injector, study, 11494
- pressurization systems for liquid-methane fuel in supersonic transports, 17252
- pumped helium tests of 51-centimeter bore niobium-tin magnet, 10112
- real-helium hypersonic flow parameters for pressures to 3600 atmospheres and temperatures to 15,000° K, 1092
- symposia proceedings in 1968, a hundred years of helium, 17172
- thermodynamic properties, and real-gas effects in critical flow thru nozzles, 4695, 16149
- Helium Applications Symposium, Washington, D.C., Oct. 23-24, 1968, proceedings, 17172
- Helium Centennial Symposium, Atlantic City, N.J., Sept. 11, 1968, proceedings, 17172
- Heller, Hanno H., correlation of fluctuating forces with sound radiation from rigid flow spoilers, 10082
- Heller, Louise A., circadian rhythms, selected references, 623
- Hellman, Alfred, bihazard control and containment in oncogenic virus research, 13168
- Hellman, Hal, spectroscopy, 5192
- Hellman, Ida L., utilization of short-stay hospitals under medicare, selected characteristics of discharged patients, 6232
- Helme, William H. :
 - factor analysis of situational leadership measure, speeded practical judgment test, 6449
 - factorially derived information measures for differential prediction of officer performance, 13665
- Helmets, flight, noise attenuation provided, manikin measurements, 14503
- Helminthology, see Worms.
- Helminths, waterfowl (Anatidae), annotated bibliography, 14887
- Help us meet the challenge, career opportunities with Department of Labor, 4463
- Helping others catch up, 3665
- Hely, Allen G. :
 - hydrologic and climatologic data, 1967, Salt Lake County, Utah, 9906
 - lower Colorado River water supply, its magnitude and distribution, 5714
- Hemami, H., techniques for generation of control and guidance signals derived from optical fields, 16146
- Hematopoiesis, see Blood.
- Hemisphere, Northern :
 - daily synoptic weather maps, 2739
 - radiosonde data at stratospheric levels, compatibility, 16971
- Hemisphere, Western :
 - agricultural production excluding United States, revised 1959-67, preliminary, 1968, indices, 6861
 - agricultural situation—
 - midyear review, 16949
 - 1968 review and 1969 outlook, 8159

- Hemisphere, Western—Continued
business, executive officers and managerial personnel, exempt from immigration numerical limitation, report, 15367
rhyparius (coleoptera : Scarabaeidae, aphodinae), 17373
- Hemispheric teleconnections of mean circulation anomalies at 700 millibars, 12573
- Hemlock :
old-growth, in southeast Alaska, volume tables and equations, 8293
sawfly in southeast Alaska, 4228
western—
gluing with fire-retardant-treated Douglas-fir, 4304
- Hemlock loopers, *see* Loopers.
- Hemodynamics, *see* Blood.
- Hemolytic disease of fetus and newborn due to RH isoimmunization, 13777
- Hemstead County, Ark., community profile, 15565
- Hendee, John C., wilderness users in Pacific Northwest, their characteristics, values, and management preferences, 8305
- Henderson, John B. :
addresses, etc.—
Feb. 21, 1969, 5285
Sept. 24, 1969, 15178
- Henderson, Tenn. :
flood plain information, 4205
South Fork, Forked Deer River and Sugar Creek floods how to avoid damage, 4208
- Hendrick, James P., remarks, Jan. 15, 1969, 4994
- Hendricks, Herbert D., resolution changes in lithium-drifted silicon semiconductor detectors irradiated with 0.5, 1.0, 2.0, and 3.0 MeV electrons, 1118
- Hendricks, Robert C., film boiling from submerged spheres, 13069
- Henkes, William C., perlite, 16092
- Henkin, Daniel Z., nomination, hearings, 9447
- Henn, John J., methods for producing alumina from clay, evaluation of 2 lime sinter processes, 16099
- Heure Operation, *see* Operation Heure (high energy neutron reactions experiment).
- Henrico County, Va. :
flood plain information, 12480
technical appendix, 12481
- Henry, Varice F., radio frequency interference experiment design for applications technology satellite, 11438
- Henry, Ill., railroad accident, report, 11102
- Herry County, Tenn., appraisal of potentials for outdoor recreational development, 17386
- Henson, P.R., annual lespedezas, culture and use, 7586
- Hepatic functions, *see* Liver.
- Hepatitis, surveillance, National Communicable Disease Center, report, 11620
- Heptanoic acid :
temporary duty suspension, extend—
law, 12121
reports, 7896, 10745, 10874
- Hepting, George H., tree diseases of eastern forests and farm woodlands, 6375
- Herald of communications (USSR periodical), 2957
- Heras, C. A., phenomenological and microscopic analysis of properties of even-even nuclei, 5160
- Herbage :
production—
differs with soil in pinyon-juniper type of Arizona, 9851
relationship of different forest floor layers, 5675
- Herbarium, *see* National Herbarium.
- Herbert, Charles F., Alaska-Northwest Canada economic activities, summary comparison of mining laws and oil and gas laws practices with recommendations for policy, 14194
- Herbert, Edward L. :
food processing industry in Taiwan, 1656
salad dressing, mayonnaise & related products, 11978
- Herbert Hoover National Historic Site, general information, 1223
- Herbicides :
lawn weed control, 40
low concentration found in streamflow after grass cover is killed, 9863
organic, toxicity to cattle, sheep, and chickens, 8989
use in controlling ironweed and buckrush, evaluation of methods of application and combinations of treatments, 5068
- Herbstreit, Jack W., relief, 7876
- Heredity, *see* Genetics.
- Here's how, guide to tree planting in Southwest, 14291
- Hering, Wayne S., ozonesonde observations over North America, 1532
- Heriot, Laura, Negro population of selected areas of U.S. in which special censuses have been taken, 215
- Herlong, A. Sydney, nomination, hearing, 15422
- Hernach, F. L., precision measurement and calibration, selected papers on electricity, low frequency, 4763
- Heron, Gayle A., five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska, 14860
- Herpes zoster, *see* Shingles (disease).
- Herpetology, *see* Reptiles.
- Herr, William McD., new borrowers in Farmers Home Administration operating loan program, 9640
- Herrick, Allison B. :
area handbook—
Mozambique, 7662
Tanzania, 170
Uganda, 6438
- Herring, H. James, method of calculating compressible turbulent boundary layers, 1002
- Herring, Harvey W., mechanical behavior of boron-epoxy and glass-epoxy filament-wound cylinders under various loads, 7256
- Herrmann, Frank A., jr., model studies of navigation improvements, Columbia River estuary, hydraulic and salinity verification, 5572
- Hersch, Martin, performance and stability characteristics of nitrogen tetroxide-hydrogen combustors, 1055
- Herzog, Elizabeth, Nation's youth, chart book, 3867
- Herzog, James H., proprioceptive cues and their influence on operator performance in manual control, 4672
- Hesketh, Wilfred D., effects on zinc concentration on output of zinc-doped germanium detectors, 1070
- Hess, H. L., analytical and experimental study of dynamics of single-tube counter-flow boiler, 5972
- Hester, Rupert, background and motivational characteristics of medical officer candidates for submarine service, 16068
- Heunisch, George W., pyrolytic decomposition studies of tetraethoxysilane for obtaining high-grade SiO₂ films, 3739
- HEW, *see* Health, Education, and Welfare Department.
- Hewston, John G., recreational use patterns at Flaming Gorge Reservoir, 10398
- Heyman, Joseph S., evaluation of technique for measuring ion energy loss in vapor-deposited materials, 16179
- Heyman, Margaret M., criteria and guidelines for evaluation of in-service training, 1385
- Heyson, Harry H., use of superposition in digital computers to obtain wind-tunnel interference factors for arbitrary configurations, with particular reference to V/STOL models, 6025

- Hibiscus cannabinus*, *see* Kenaf.
- Hickel, Walter J.:
nomination, hearings, 4084
print additional copies, reports, 6759, 7919
remarks
Mar. 1, 1969, 5758
Mar. 3, 1969, 5759
Apr. 2, 1969, 7091
Apr. 11, 1969, 8414
May 29, 1969, 9953
July 15, 1969, 11278
Oct. 8, 1969, 15852
- Hickey, John J., variations in low-water streambed elevations at selected gaging stations in northwestern California, 14373
- Hickey, M. E., investigations of plastic films for canal linings, 16392
- Hickman, K. B., pumping and energy recovery systems for reverse osmosis desalination plants, 15855
- Hickman, Kenneth, behavior of liquid surfaces during evaporation and condensation, 2012
- Hickman County, Tenn., appraisal of potentials for outdoor recreational development, 17387
- Hicks, Iris O., relief, 13898
- Hides and skins, *see* Leather, hides, and skins.
- Hiers, Robert S., jr., analysis of nonequilibrium air streams in Ames 1-foot shock tunnel, 4717
- Hilester, Nevin K., comparative evaluation of ablating materials in arc plasma jets, 2190
- Higgins, E. Arnold:
effects of alcohol at 3 simulated aircraft cabin conditions, 7725
effects of two antihistamine-containing compounds upon performance at three altitudes, 211
- Higgins, Robert P., Indian Ocean Kinorhyncha, *Condyloeres* and *Sphenoderes*, new *Cyclophragid* genera, 13426
- Higgins, William J., market prospects for U.S. horticultural products in Japan, 15748
- High, Richard W., some liquid oxygen/liquid hydrogen explosive effects in controlled failure-mode tests, 14629
- High blood pressure, *see* Blood pressure.
- High-energy physics, *see* Atomic energy.
- High-performance light-weight electrodes for hydrogen-oxygen fuel cells, 2195
- High School News Service, report (periodical), 15524
- High school students, *see* Students.
- High schools:
counselors manual, Armed services vocational aptitude battery, 14081
elementary and secondary construction act of 1969, hearings, 15314
factors related to high school graduation and college attendance, 10603
graduates, Presidential scholars, 10286
Human Rights Year, 1968, suggested activities and reading materials for secondary schools, 2399
job opportunities that may be open to applicants, high school education—generally required, 4607
preferred, but not essential, 4608
nonpublic, 1965-66 directory, 1815
public schools, pupils, teachers, etc., fall 1968, statistics, 9652
to improve secondary school science and mathematics teaching, history of National Science Foundation's programs, 4812
see also Junior high schools.
- High speed ground transportation, *see* Railroads.
- High Speed Ground Transportation, Office, research reports, bibliography, 14223
- High-Speed Photography, International Congress on, *see* International Congress on High-Speed Photography.
- High temperature materials, *see* Materials.
- Higher education, *see* Colleges and universities.
- Highlights of matching fund marketing service programs, 506
- Highlights of research progress in human development, 16257
- Highlights of U.S. export and import trade, 2920
- Highway bridges, *see* Bridges.
- Highway engineering, *see* Roads and highways.
- Highway engineers:
college recruiting, 1968 report, 11058
opportunities, Public Roads Bureau—highway or highway bridge engineering, bridge to your success, 16385
professional engineer, 14817, 16388
- Highway machinery, *see* Road machinery.
- Highway planning notes, 2953
- Highway-railroad grade crossings, *see* Railroad crossings.
- Highway safety, *see* Safety of life.
- Highways, *see* Roads and highways.
- Hijacking, *see* Air piracy.
- Hikes, backpacking in national forest wilderness, a family adventure, 10493
- Hilary, P. Jones (U.S.S.):
loan, extension, agreement with Republic of China, 14924
- Hilbert space, stability theory of nonlinear operational differential equations, 10089
- Hileman, Douglas H., mineral industry of Utah, 2164
- Hill, Charles A., jr., Indian health trends and services, 10311
- Hill, Thomas E., jr., separation of feldspar, quartz, and mica from granite, 7215
- Hill, Wilhelm, significance of physical training for pilots, 6415
- Hill, Wilhelmina, Human Rights Year, 1968, suggested activities and reading materials for elementary schools, 2393
- Hill-Burton health facilities series, 13347
- Hill-Burton program:
Hill-Burton is . . . , general information, 10308
hospital and medical facilities series under Hill-Burton program, 1337, 6183, 7418-19
hospitals and related health facilities, representative construction costs, 14805, 16370
progress report, 1947-68, 10309
- Hillegass, T. J., use of effective speed as evaluation criterion, 16387
- Hiller, Charlotte H., trends of fibril angle variation in white ash, 689
- Hillje, Ernest R., entry aerodynamics at lunar return conditions obtained from flight of Apollo 4 (AS-501), 17219
- HIM series, 2452
- Himantariidae, *see* Centipedes.
- Hiner, Richard L., slaughtering, cutting, and processing beef on farm, 13585
- Hinkle, Melvin E., mineral industry of Massachusetts, 957
- Hinson, William F., aerodynamic characteristics in pitch of 1/7-scale model of two- and three-stage rockets configuration at Mach numbers of 0.4 to 4.63, 14626
- Hip Wu, *see* Wu Hip.
- Hired farm working force of 1968, statistical report, 10967
- Hiring practices, *see* Employment.
- Hirshberg, Robert L., remarks, Jan. 27, 1969, 4422
- Hirst, Katherine M., infant and perinatal mortality in England and Wales, 1351
- Hirudinea, *see* Annelids.
- Hispanic Heritage Week, National, *see* National Hispanic Heritage Week.

- Hiss, W. L., computer-generated monthly report, summary of hours by fund and phase, 12766
- Histamine, in rat heart, effect of monoamine oxidase and diamine oxidase inhibitors, 11903
- Historians:
employment outlook, 4552
examination announcement, amendment, 13786
- Historic American Buildings Survey, selections, 2318, 16273-274
- Historic sites:
Big Bend National Park, historic resources management plan, 13188
Georgetown architecture, waterfront, Washington, D.C., 2318
grants for historic preservation, information for applicants, 12809
landmarks, areas administered by National Park Service, 2316
national park system, administrative policies, compilation, 1214
national register, information leaflet, 17289
northeast Georgetown residential architecture, Washington, D.C., 16273
preservation program, general information, 12815
publications, price list, 7409
see also names of historic sites.
- Historic structures report (series), 8724, 10204-205, 16275, 17286
- Historical chart book, 654, 16999
- Historical statistics U.S. series, 3925
- History:
American writings, 1959—
departmental edition, 15028
document edition, 15217
historical handbook series, 8725, 14703
see also Military history—Naval history—
also names of departments, etc.—*also* subjects.
- History and Geography, Pan American Institute of, *see* Pan American Institute of Geography and History.
- History and Technology Museum, contributions from, title page, contents and index, 10198
- Hittle, James D., nomination, hearing, 5428
- Hixson, D. H., graphical solutions of geologic problems, 14880
- Ho, Koon Chew, relief, 6739
- Hobbs, Robert G., mineral industry of Georgia, 952
- Hoberg, Vernon L., relief, 10829
- Hobson, Edmund S., predatory behavior of some shore fishes in Gulf of California, 2479
- Hodge, Carlton T., Serbo-Croatian, basic course, 7490
- Hodges, Anne, high school topic 1969-70, selected excerpts and references, 9379
- Hodges, Ronald W., Nearctic *Walshiidae*, notes and new taxa (Lepidoptera: Gelechioidea), 13429
- Hodgkin-Huxley equation, *see* Equations.
- Hodgson, James D., nomination, hearing, 5462
- Hoeckstra, Pieter, dielectric properties of clay suspensions in frequency range from 50 Hz to 20 KHz, 15650
- Hoelker, R. F., comparison of class of earth-moon orbits with class of rotating Kepler orbits, 1120
- Hofe, G. Douglas, remarks, Oct. 23, 1969, 17316A
- Hofferber Truck Line, Inc., motor carrier accident report, 7223
- Hoffman, A. S., development of ultrathin skin membranes-hema polymers, 8115
- Hoffman, Dan, analysis and interpretation of full-scale data on midship bending stresses of dry cargo ships, 11659
- Hoffman, E. E., Cb-1Zr pumped sodium loop, 999
- Hoffman, J. J., La Roche sites, 2450
- Hoffman, Lawrence H., approximation to statistics of midcourse velocity corrections, 16159
- Hogs, *see* Swine.
- Hoh Chin, *see* Ho, Koon Chew.
- Hohl, Frank, computer simulation of cylindrical galaxy, 8648
- Hoists, traversing, classification definitions, 2375
- Holanda, Raymond, evaluation of volume-ratio system for vacuum gage calibration from 10⁻³ to 10 torr, 14644
- Holcomb, Luther, nomination, hearing, 10916
- Holcomb, Wade G., development of NMFL telemetry system, 2d report, 14513
- Holders, for electrical and electronic components, Federal item identification guide, 15504
- Holding companies:
act of 1935, releases, SEC, 2960
laws relating to, compilation, 349
see also Banks and banking—Public utilities.
- Holding patterns, 11920
- Holidays:
around the world listed, commercial guide, 7100
Federal, consideration, authorization, report, 5412
gift list for reader, 1323
major collective bargaining agreements, paid vacation and holiday provisions, 12964
- Holidays and National Observances Commission, *see* National Observances and Holidays Commission.
- Holla Bend National Wildlife Refuge, general information, 7469
- Holland, Elmer J., memorial services, 3931.
- Holland, Joshua A., application of some statistical techniques to study of eddy structure, 1604
- Hollander, Sidney, jr., variety stores, 14856
- Hollenbeck, Ronald P.:
mineral industry of Alabama, 945
raw materials for lightweight aggregate in Appalachian region, Ala. and Ga., 5963
- Holley, D. L., jr., potential growth of southern pine plywood industry, 11189
- Holloway, Paul F., effects of cloud cover on selection of recovery sites for future earth orbital missions, 7288
- Holmes, Robert W., description and evaluation of method for determining incident solar radiation, etc. 5302
- Holmes, Wesley, T. II, liquidus temperatures of titaniferous slags, 4651
- Holms, Arthur G., design of experiments as doubly telescoping sequences of blocks with application to nuclear reactor experiment, 13137
- Holstein cattle, *see* Cattle.
- Holt, Lamar, seafift magazine, 3416
- Holt, Perry C., genus *Pterodrilus*, Annelida, Branchiobdellida, 1210
- Holtan, H. N., moisture-tension data for selected soils on experimental watersheds, 1496
- Holtzville, N.Y., railroad accident, report, 9791
- Holtz, Wesley, G., soil as an engineering material, 14839
- Holtzmann, Ernest Gunther, approximating properties of linear models for input-output analysis, 10074
- Hom, Gong Sing, relief, 8000
- Home Airmotive, Inc., aircraft accident, 16283
- Home canning of fruits and vegetables, 13588
- Home chicken flock, 10481
- Home economics:
consumer information, publications, price list, 4868
family economics review, 2816

Home economics—Continued

- home and garden bulletins, 38-41, 1505-6, 3638-41, 5034-45, 6379-81, 7589-93, 8968, 10481-483, 11867-868, 13587-590, 14993, 16539-542
- homemaker-home health aide—
 - in health services, workshop, report, 10310
 - recommendations for training and services, 1037
- homemakers' opinions about selected meats—
 - nationwide survey, 11874
 - preliminary report, 2507
- homemakers, publications, list, 790
- keeping food safe to eat, guide for homemakers, 8968
- pesticide safety in your home, 3664
- publications, price list, 2403
- research reports, 13591, 16543
- Home economists, employment outlook, 4512
- Home loans, *see* Loans.
- Home makers, *see* Home economics.
- Home rule, District of Columbia, hearing, 9455
- Homemakers, *see* Home economics.
- Homemaking, *see* Home economics.
- Homeowners, *see* Homes.
- Homes:
 - above ground fallout shelter, 16676
 - all electric, annual bills, 8212
 - amortization tables for home mortgages insured under National housing act, 635
 - ants in the home, how to control, 6379
 - construction, maintenance, community development, publications, price list, 1929
 - decent home, report of President's Committee on Urban Housing, 2397
 - fallout protection, home fallout shelter, outside concrete shelter, 6516
 - FHA insured mortgages—
 - area trends, 4256
 - State trends, 4258
 - FHA, insuring operations under sec. 203, 1967 data for States and selected areas, 5607
 - FHA regulations, amendments, mortgage insurance, 1865, 11061, 15707 16990
 - FHA trends, characteristics of insured mortgages, 2890
 - FHA's role in home improvement, \$400
 - heating, systems, fuels, controls, 1503
 - home health benefits under medicare, 10375
 - home mortgage programs, FHA monthly report of operations, 16989
 - homebuyers, mortgage credit, make more available during periods of tight money, hearings, 15419
 - homeownership assistance for purchase and resale of housing to lower income families, 1986
 - homeownership for lower income families, 772
 - mortgage debt, estimated quarterly, 2895
 - mortgage insurance, FIAA system, general information, 14387
 - mortgages' guide, assistance and interest reduction payments, 770, 5739
 - nation's program to help lower income families become homeowners (address), 14382
 - new one-family, sold and for sale, 15119
 - one-family, insured by FHA under sec. 221 (d) (2), trends, 12614
 - Papago Indian Reservation, premise and home environmental health survey, 13361
 - planting by design, 3641
 - refuse storage, safe and sanitary handling, 6205
 - SBA disaster loans, 1377
 - school and home program, Flint, Mich., elementary program in compensatory education, 6874

Homes—Continued

- second homes in United States, current housing reports, 10601
- tax deductions for homeowners, information, 4419
- tax information on selling your home, 8452
- trade-ins, how FIAA helps, Spanish edition, 5745
- veterans—
 - home-buying guide, 6342
 - loan guaranty entitlement, increase, amend U.S. Code, hearing, 499
 - loans, authority to set interest rates on mortgages, extend, reports, 15268, 15284
- Homes (institutions), *see* Nursing homes.
- Homestead, Fla., Canal 111, some hydrologic effects, 14358
- Homework helper program, New York City, 6878
- Homoplasty, use of cadaver blood and aspects of homoplasty, selections from scientific meeting, USSR study, 12925
- Homopolar generators, digital computer design-analysis program for homopolar inductor alternators, description and evaluation, 7261
- Homoptera, general catalogue, 12
- Hon Chun Eng, *see* Eng Hon Chun.
- Honda, T. S., fluidic vortex valve servoactuator, 15056
- Honduras, background notes, 7479
- Honey:
 - market news, monthly report, 2961
 - production, annual summary, 7531
 - research and promotion program, hearings, 12202
 - U.S. honey in west European market, 12670
- Honey bees, *see* Bees.
- Honeycomb structures, *see* Laminated materials.
- Hong Kong:
 - economic trends and their implications for United States, 8460
 - market factors, 1659
- Honor, *see* Ethics.
- Hook, Donal D., influence of soil type and drainage on growth of swamp chestnut oak seedlings, 9861
- Hooker, Verne E., near-surface horizontal stresses including effects of rock anisotropy, 4645
- Hooks, light helicopter cargo hooks, bracket, description, 14259
- Hoole, W. Stanley, new technology and American economy, 3891
- Hooper, Mary E.:
 - associate degrees and other formal awards below baccalaureate, 14129
 - earned degrees conferred, 1967-68—
 - institutional data, 12427
 - summary data, 10981
- Hoosier Creek, flood plain information, 12470
- Hoover, D. B., seismic activity during 1968 test pumping at Rocky Mountain arsenal disposal well, 5711
- Hoover, I. H., paper, June 17, 1969, 15680
- Hope for tomorrow, 2102
- Hopi Indians, economic advancement and general welfare, promote, report, 15255
- Hopi Reservation:
 - hydrogeology (series), 5715, 8353
 - regional hydrogeology, Ariz., N. Mex., and Utah, 8353
 - stratigraphy, Chinle and Moenkopi formations, 5715
- Hopi Tribe, *see* Hopi Indians.
- Hopkins, Edward J., summary and correlation of skin-friction and heat-transfer data for hypersonic turbulent boundary layer on simple shapes, 11443
- Hopkins, John A., Latin American farmer, 12418

- Hopkins, John B., fabrication and characteristics of microwave, backward diodes in indium arsenide, 16164
- Hoppe, John C., rotational and vibrational temperature measurements in 12-inch hypersonic ceramic-heated tunnel, 1110
- Hops:
foreign agriculture circulars, 2902
stocks, 7534, 16486
- Horan, D. M.:
solar X-ray emission during flight of Apollo 8, 13304
using solar X-rays as indicators of solar-flare activity, 13295
- Horizon:
infrared, profiles, for winter conditions from Project Scanner, 2231
radiance profiles, technique to infer atmospheric temperature, structure, 6015
- Horizontally supported planar surfaces, 2264
- Horn, Daniel:
smoker's self-testing kit, 14807
interpretation of test scores, 8817
tests, 8816
- Horn, Leon, thermal gradient effects on 13 flush mounted pressure transducers, 14674
- Hornbeck, Robert W., viscous flow in short cylindrical vortex chamber with finite swirl ratio, 1293
- Hornets, *see* Wasps.
- Horowitz, Louele A.:
magnitude and frequency of physician fee increases for selected procedures, 10370
medical care prices—
changes, medicare's first 3 years, 16416
fact sheet, 10368
- Horse bots, *see* Flies.
- Horses:
8-stall barn, farm building plan, 47
reported arthropod-borne encephalitis, 13555
temporarily exported for use in racing, multiple customs duties, eliminate, reports, 7897, 10848
- Horseshoe Bend National Military Park, general information, 16276
- Horseshoe properties, quarter century of forestry progress, 13503
- Horseshoeing, farriery classification definitions, 1283
- Horticultural products:
foreign competition, 12669
market prospects for U.S. horticultural products in Japan, 15748
- Horticulture:
historic books and manuscripts concerning horticulture and forestry in collection of National Agricultural Library, 1157
tropical and subtropical, handbook, 7123
- Horton, James A., agricultural marketing, 2562
- Horton, W. H.:
applicability of Southwell plot to interpretation of test data from instability studies of shell bodies, 13674
effect of test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
thermal ram, new concept for load application, 13672
use of small and large displacement data from essentially elastic buckling tests on columns and plates as means of correlating theory and experiment, 13673
- Horwath, Elisabetha, relief, 6626
- Hose:
and hose assemblies, Federal Item identification guide, change, 15505
Federal item identification guides for supply cataloging, supplements, 2845
pipe, and tube fittings, quick disconnect and self-sealing, Federal Item identification guide, 16916
- Hose—Continued
trade and tariff information, summaries, 10432
- Hosiery:
industrial wage survey, 4591
industry in Puerto Rico, data pertinent to review of minimum wage rates, 13521
- Hoskins, John R., influence of spherical head size and specimen diameters on uniaxial compressive strength of rocks, 4652
- Hospital administrators:
emergency handling of radiation accident cases, 11967
employment outlook, 4514
resident, V.A., examination announcement, 12057
- Hospital attendants, employment outlook, 4545
- Hospital corpsmen, Navy, predicting academic performance, 16060
- Hospital facilities, Veterans, *see* Veterans hospitals.
- Hospital Insurance Trust Fund, Federal Board of Trustees, *see* Board of Trustees of Federal Hospital Insurance Trust Fund.
- Hospitalization, *see* Hospitals—Veterans hospitals.
- Hospitalization insurance:
Canada, administrative expense, data, 2454
comparison of actual experience under III with estimates of various organizations, 8854
medicare—
current survey report, hospital insurance sample, 17381
health insurance under social security, handbook, Spanish edition, 10380
hospital insurance benefits in extended care facility, 13440
- Hospitals:
and related institutions industry, Puerto Rico, minimum wage rates, 13522
Army medical facilities, interpersonal relations in care and management of patients, guide for instruction of non-professional personnel, 15047
average daily costs for persons aged 65 and over, 17380
community, Indians and non-Indians, funds for construction, public health laws, compilation, 493
computer based biomedical information system, logic foundation and techniques, 5133
cost of medical care, reimbursement incentives objectives and alternatives, 4939
diets, technical manual, 5126
directory of medicare providers of services under health insurance for the aged, 1390
drugs distribution, 13347
electric facilities, 6183
electronics for hospital patient care, 1337
emergency medical supplies, hospital reserve, disaster inventory, 14789
epidemiologic and medical-care research, use of hospital data, report, 10337
fallout protection, 7419
general—
cost to design, construct, and equip, GAO survey, 5693
use by aged psychiatric patients study, 8855
- Hill-Burton hospitals and related health facilities, representative construction costs, 14805, 16370
- hospital and health facilities construction and modernization, grants program, extend, hearings, 7965
- hospital and medical facilities, Hill-Burton program—
general standards of construction and equipment, 7418
progress report, 10309
projects approved for Federal aid, register, 2418

- Hospitals—Continued
 hospital and medical facilities series—
 facilities for mentally retarded, 1338
 under Hill-Burton program, 1337, 6183,
 7418-19
 Hospital care, expenditures by region and
 state, per capita, 13437
 Indian Health Division, annual discharge,
 summary, 14787
 Indian health services, annual statistical
 review, 7420
 medical facilities—
 available to Federal employees injured
 in performance of duty, 16966
 construction and modernization amend-
 ments of 1969—
 hearings, 14056
 reports, 9309, 9323
 medical research institutions named after
 medical men, 7351
 medicare program—
 need for timely action in resolving prob-
 lems affecting eligibility, Social Secu-
 rity Administration, GAO report,
 1948
 services under, length of stay of patients
 discharged from short stay hospitals,
 4935
 utilization of short-stay hospitals, se-
 lected characteristics of discharged
 patients, 6232
 packaged disaster hospitals—
 and hospital reserve disaster inven-
 tories, 4888
 series 10,000 mod A, component listing
 and storage, 10301, 16341
 persons hospitalized by number of hospital
 episodes and days in year, 1965-66, sta-
 tistics, 6211
 prevent urinary tract infections, 16366
 private, in District of Columbia, computa-
 tion of overtime compensation for em-
 ployees, authorize, report, 12179
 Public Health Service—
 grants, etc., for construction—
 1967 funds, 1347
 1968 funds, 16264
 Indian and Alaska native contract hos-
 pitals, field health, annual statistical
 review, 14780
 medical residencies and internships, 7422
 reducing costs of hospitalization, medical
 services, and drugs provided to Federal
 employees for job-related disabilities,
 GAO report, 9877
 short-stay—
 1965, regional utilization, 11644
 patients discharged from, statistics by
 size and type of ownership, 1965,
 United States, 2433
 they're ready to work in your hospital, Job
 Corps information, 8149
 utilization, persons aged 65 and over as in-
 dicated by data under Hospital Insur-
 ance Program and from American Hos-
 pital Association, 17380
 see also Air Force hospitals—Military hos-
 pitals—Veterans hospitals—also names
 of hospitals or places where located.
 Hosterman, John W., clay deposits of Spo-
 kane County, Wash., 5702
 Hot cells, equipment developed for remote
 tension testing specimen evaluation at
 NRL, 6144
 Hot cycle rotor/wing composite research air-
 craft, 6450
 Hot pressing, joining refractory metal com-
 pounds by hot pressing, 4646
 Hot-salt stress-corrosion of a titanium alloy
 under simulated turbine-engine compres-
 sor environment, 17251
 Hot Springs County, Ark.:
 community profile, 15566
 water resources, 756
 Hot Springs National Park, general informa-
 tion, 11551
 Hot Sulphur Springs quadrangle, geology,
 748
 Hotchkiss, William R., geologic and hydro-
 logic reconnaissance of Lava Beds National
 Monument and vicinity, Calif., 8348
 Hotels:
 District of Columbia—
 liability to guests, revise laws, report,
 16803
 offenses against, revise laws, report,
 16801
 hotel and motel industry in Puerto Rico,
 data pertinent to review of minimum
 wage rates, 13523
 occupations, employment outlook, 4579
 Hotine, Martin, mathematical geodesy, 15672
 Hottenroth, Marjorie J., relief, 6612, 10835,
 12093
 Houff, James N., area wages and living costs,
 8561
 Hours of labor:
 employee compensation and payroll hours,
 cotton and synthetic textiles, 12963
 fair labor standards act—
 hours worked, 6347
 maximum hours standards, 1968 report,
 5004
 overtime compensation, 7560
 overtime pay, basic rates for computing,
 11777, 13533
 Government officials and employees, FPM
 supplement, 2863
 hours of service act amendments of 1969,
 reports, 13910, 15267
 in foreign countries, wage-hour standards,
 5898
 output per man-hour indexes, industry,
 5899
 railroad employees, reduce 16-hour maxi-
 mum limitation for certain employ-
 ees—
 hearings, 12232
 reports, 13910, 15267
 retail trade, June 1966—
 drug stores and proprietary stores, 894
 employee earnings an hours, 4593
 food stores, 893
 union—
 building trades, 11337
 local transit operating employees, 8550
 motortruck drivers and helpers, 12965
 House, Frederick B., inference of strato-
 spheric temperature and moisture profiles
 from observations of infrared horizon,
 16135
 House Administration Committee, House:
 calendar, 3042
 committee prints, 6718, 15319
 investigations and studies, expenses, re-
 port, 7883
 reports, 376-382, 5345, 6667-80, 7877-84,
 7888, 7901, 7912-21, 9291, 9296-98,
 9324, 10744, 10752-759, 15240, 15243,
 15246-248, 15286-290
 House documents, 356-370, 1687-93, 3945-
 76, 5319-43, 6569-88, 7837-62, 9248-58,
 10690-696, 12133-154, 13849-863, 15216-
 226, 16747-748
 House flies, see Flies.
 House of Representatives:
 appropriations, 1970, legislative—
 hearings, 13917
 reports, 16862
 beauty shop, funds for expenses, repay-
 ment to contingent fund, report, 376
 calendars and history of legislation, 3034
 candidates, campaign expenditures, spe-
 cial committee to investigate, report,
 3981
 delegation to—
 Canada-Interparliamentary Group meet-
 ing, report, 373
 Mexico-United States Interparliamentary
 Group conference, report, 1700
 disbursements, detailed statement, 6718,
 15319

House of Representatives—Continued
 employees, pay, per annum gross rates, of certain positions, report, 15240
 House-passed tax bills pending before Committee on Finance, Senate, July 18, 1967, summary, 466
 journal, 90th Cong., 2d sess., 5318
 Members—
 clerk, additional, provide, report, 10744
 funds for salaries, transfer within Offices of Clerk and Sergeant at Arms, report, 9324
 nonvoting delegate for District of Columbia—
 hearing, 9455
 report, 15411
 payment of compensation for committee employees, report, 5345
 personnel, salaries, payment out of contingent fund, report, 6680
 rules, amend to change name of Un-American Activities Committee, report, 5356
 rules and manual, 7838
 telephone directory, 7836
 witnesses, fees increased, report, 13908
 House painting, *see* Painting.
 House reports:
 private bills, 6589-6642, 7863-76, 9285-9324, 10697-709, 12155, 13864-906, 16749-768
 public bills, 371-383, 1694-96, 3977-82, 4046-67, 534-63, 6643-6700, 7877-7940, 10710-762, 12156-201, 13907-910, 15227-298, 16769-805
 House Restaurant, Select Committee on.
 House:
 establish, report, 12161
 funds, provide, report, 15243
 House Where Lincoln Died:
 general information, 14703
 poster, 17288
 Household appliances:
 consumers' information, publications, price list, 4868
 Federal item identification guides for supply cataloging, supplements, 2849
 recent purchases and expected expenditures, report of U.S. households, 246
 Household employees, *see* Servants.
 Household goods:
 and commercial furnishings and appliances, Federal item identification guides for supply cataloging, supplements, 2849
 cost evaluation for movement between United States and Germany, Defense Dept., GAO report, 1942
 durables, recent purchases and expectations to buy during months ahead, 5225, 9160
 electric housewares, current industrial reports, 228, 9131
 shipping, guide for civilian employees of U.S. Government, 7040
 Household linens, *see* Linens.
 Household workers, *see* Servants.
 Households:
 and family characteristics, current population reports, 15115
 by state, population estimates, 9158
 by type, 1968, population characteristics, 240
 cars and household durables, recent purchases and expected expenditures, 246
 dietary levels, United States, 13592
 food consumption survey, 1965-66, reports, 13592
 income—
 and selected social and economic conditions, characteristics, 10606, 16668
 by selected characteristics of the head, 5224
 insecticides, guide, addendum, 10477, 11862
 sample survey, Atlantida case study, editing and coring, Spanish edition, 1624

Households—Continued
 with television sets in U.S., current housing reports, 9123
 Housekeeping *see* Home economics—Industrial housekeeping.
 Houseman, Kenneth A., nomination, hearing, 5464
 Houses:
 all residential properties, construction reports, residential alterations and repairs, 11997
 flooded homes, first aid, 6370
 house construction, how to reduce costs, 10483
 house foundation of treated wood after 30 years' service, 688
 military man who wants to buy a house, Spanish edition, 5747
 recent purchases—
 and expectations to buy during months ahead, 5225, 9160
 cars, houses, and other durables and expectations to buy, survey data, 13770
 selection of purchasers of residential properties sold by Federal Housing Administration, GAO review, 7036
see also Farm buildings—Housing.
 Housewares, *see* Household goods.
 Housing:
 act of 1949, urban renewal programs authorized by act, operations report, 3382
 analysis of twelve experimental housing projects, 11270
 ALPHA-PHS recommended maintenance and occupancy ordinance, 11604
 Appalachian housing assistance, HUD handbook, 12810
 authorized by building permits and public contracts, construction reports, 2690-91, 11996
 authorized, construction reports, 3833
 balanced programs for balanced budgets (address), 14385
 basic laws and authorities, 9336
 breakthrough, HUD program, 11260
 building and planning, overseas missions, bibliography, 15838
 building the American city, report, 5326
 census, 1970—
 measure of America's progress, 9120
 second count summary tapes, results, 13771
 third count (block) summary tapes, results, 13772
 characteristics of new one-family homes, 1968, construction reports, 16657
 CHOICE program, interim data, 11271
 code of Federal regulations, 6956
 code standards, studies, 11599
 code violations, legal remedies, 1318
 construction in hazardous geologic areas, Federal involvement—
 hearings, 10787
 report, 15244
 cooperatives, mandate for progress (address), 765
 credit, brand new ball game, the 70's (address), 15704
 current reports—
 housing characteristics, 2731, 9123, 10601
 housing vacancies, 1619, 2731, 10600, 11998, 15113
 dealers and individuals subject to certain sections of title 1, National housing act, list, 5606
 decennial census, 1970, questions, limit categories, agency reports, 9363
 decent home and suitable living environment for every American (remarks), 12818
 development lending activities, U.S. participation, investigation and study, authorization, report, 373

Housing—Continued

- displaced persons, uniform relocation assistance and land acquisition, hearings, 8074
- elderly people—
 - community improvement in Wilmerding, Pa. (address), 769
 - life safety from fire, guide for housing the elderly, 785
 - status of housing (address), 782
- equal opportunity fair housing laws and Executive orders, relating to programs of HUD, 9944
- exception income limits, 5740
- fair housing law and other Federal civil rights laws and executive orders relating to programs of Housing and Urban Development Department, equal opportunity, 11269
- family, Navy design manual, change, 13208
- fastening surfacing materials in rehabilitation operations, guide, 4257
- Federal housing and urban development programs, progress report, 15424
- Federal programs—
 - extend—
 - law, 16744
 - report, 15397
 - study—
 - authorization, report, 4050
 - expenses, report, 4017
- federally assisted public housing for children, educational assistance to federally impacted area, hearing, 7551
- films, filmstrips, slides and audiotapes, bibliography, 12816
- 519 East Main Street, tribute to partnership and involvement (address), 15826
- Government, industry, and labor partnership (remarks), 15840
- government program success depends upon voluntary cooperation of private citizens and their organizations (address), 7068
- growth program (address), 9776
- help, FHA's counseling service, 636
- housing and equipment for sheep, 13586
- housing and financing (remarks), 17000
- housing and planning references (periodical), 2963
- housing and urban development—
 - act—
 - compilation, with related documents, 393
 - reports, 15297, 15371, 16792
 - summary (remarks), 767
 - legislation hearings, 13922, 14017
 - notes (periodical), 2964
 - trends (periodical), 2965
- housing conditions in urban poverty areas, 1315
- housing production and finance, 6974
- how many costs fit together, 7406
- HUD aids for fallout shelter development, 16977
- industrialized housing compendium, 7835
- industry and government face new era in housing (address), 8390
- laws, extend:
 - law, 16744
 - report, 15397
- legislation for 1969, proposals, hearings, 13922
- legislation of interest to Housing and Urban Development Dept., summary, 5751
- living units, minimum property standards—
 - general revision, 637, 11064
 - interim revision, 5609, 12615
- low and moderate income families—
 - address, 15824
 - financial assistance for non-profit sponsors, 5741
 - social needs, report, 1314

Housing—Continued

- low cost—
 - minimum property standards, 7070
 - trends of 1-family homes insured by FHA under sec. 221(d)(2), 12614
- low-income families—
 - Fredella Village, Vicksburg, Miss., demonstration project, 5752
 - nonprofit sponsors, general information, 14389
 - Rosebud Indian Reservation, transitional housing experiment, report, 12817
- low-rent—
 - housing financing handbook, 15833
 - public housing program fund, Housing and Urban Development Dept., financial statements—
 - GAO audit, 5684
 - GAO examination, 9252
 - lumber prices and shortages, effect on Nation's goals, subcommittee report, 10822
 - manufactured technically suitable for FHA mortgage insurance, 14205
 - Medical Center Courts, Detroit, Mich., dedication ceremony (remarks), 1994
 - military family, policies, procedures, and practices for determining requirements, Defense Dept., GAO report, 5691
 - mortgage banker, new opportunities (address), 781
 - mortgage loan gross flows, 11266
 - mortgagees' guide, assistance and interest reduction payments, 770, 5739
 - mortgages and housing (address), 17079
 - multifamily—
 - minimum property standards, 1866, 5608, 11063, 14206, 15708
 - projects, construction of FHA-insured, prevailing wage requirements, labor standards, 7069
 - National Commission on Urban Problems, hearings, 1312
 - national goals—
 - annual report, 5338
 - hearings, 12210
 - national housing act, amend, hearings, 15421
 - national housing act and other laws correct obsolete references in laws, 342
 - nation's housing goals, effect of lumber pricing and production, report, print as Senate document, report, 10851
 - Nation's problems, report of President's Committee on Urban Housing, 2397
 - new approaches to housing code administration, 8778
 - New Florence, case study for 1970 censuses of population and housing—
 - action-oriented census program—
 - concepts, 6505
 - initial decisions, 6504
 - pretesting, 6506
 - administrative requirements and mapping, administrative control system, 12018
 - data-collection operations, organization and functions of field staff, 7750
 - data processing, key punching, 7751
 - sampling, 5231
 - new sources of mortgage funds are needed to finance construction (address), 12807
 - new town and community development, investigation and study, authorization report, 375
 - New York City, cost and time associated with new multifamily housing construction, 14396
 - nonmetropolitan district planning assistance, 14390
 - operation breakthrough, new HUD program (address), 12808
 - owner occupied properties, construction reports, residential alterations, and repairs, 3824

Housing—Continued
 paraplegic veterans program, modify eligibility requirements—
 law, 10684
 reports, 6764, 9294
 production—
 availability of financing (remarks), 17069
 job creation (address), 8391
 subsidies, national corporation and limited partnerships (address), 15825
 programs of interest to low-income people, 17086
 programs to assist lower income families (address), 12806
 public—
 children, include in programs elementary and secondary education amendments of 1969, hearings, 16891
 housing (remarks), 764
 low-rent, local authorities participating in HHA programs, 3083
 regular income limits, by States counties, etc., list, 17084
 racial discrimination in housing, progress toward solution of problems (address), 14384
 rental & co-op in rural areas, loans, 7607
 rental, for lower income families—
 general information, 12814
 HUD handbook, 773
 HHA, report (address), 1995
 rising costs, lumber price increases, hearing 9338
 role of public welfare, 14381
 rural—
 Farmers Home Administration loans, 6976
 housing loans, 4229
 low cost wood, construction manual, 8964
 Northeast Coastal Plain area of South Carolina, 10966
 sales, construction report, 16657
 sales of new one-family homes, construction reports, 2694
 savings and home financing, 1968, source book, 15706
 search for unity (remarks), 15842
 shortage (address), 9942
 starts, construction reports, 2692
 State Department living quarters allowances, 14480
 surveys, occupants of new housing units, mobile homes and housing supply, 4389
 tax assistance for housing, its implication for Federal tax structure and Federal budget (remarks), 1481
 technical studies, President's Committee on Urban Housing, report, 8780
 terms in common use, definitions, etc., 11267
 this is operation breakthrough, 15844
 urban, needs through 1980's, analysis and projection, 2402
 urban renewal directory, 1371, 8840
 vacancy and turnover data, comparison of 2 techniques for obtaining, 14395
 vacancy rates and characteristics in U.S., 10600
 vacant units in U.S., 1619, 11998, 15113
 veterans, home-buying guide, 6342
see also Barracks and quarters—Discrimination in housing—Homes.

Housing and Urban Development Department:
 aids for fallout shelter development, 16677
 appropriations, 1970—
 hearings, 10768, 12285
 report, 10734
 waive points of order against certain provisions in bill, report, 10738
 Assistant Secretaries nomination of—
 Cox, Lawrence M., hearing, 6779
 Finger, Harold B., hearing, 8054

Housing and Urban Development Department—Continued
 Assistant Secretaries, nomination—Con.
 Gullidge, Eugene A., hearing, 15423
 Hyde, Floyd H., Samuel C. Jackson, and Samuel J. Simmons, hearing, 5431
 balanced programs for balanced budgets (address), 14385
 better communities, HUD programs to improve community life, 8398
 citizen participation today, staff conference, proceedings, 9943
 Community Development Office, what it is, what it does, 7077
 consumer bulletins, 5744-47
 Consumer Relations Services, newsletter, 2702
 disaster relief activities, 15829
 equal opportunity, fair housing laws and other Federal civil rights laws and executive orders relating to HUD programs, 11269
 Federal share of cost of demolishing buildings, savings available, GAO report, 724
 financing community facilities, GAO review, 4344
 General Counsel, nomination of Sherman Finger, hearing, 5431
 housing and urban development programs, progress report, 15424
 HUD breakthrough, 11260
 HUD Clearinghouse Service HCS series, 17080-83
 HUD guide series, 770-771, 5739, 12809, 15827
 HUD handbooks, 772-777, 1986-92, 3550, 4384-86, 5740-43, 7069-75, 8392-97, 9945-47, 11261-263, 12810-811, 14386, 15828-833, 17084-85
 HUD numbers identifying 47 programs by titles or sections of laws affecting housing and urban development, and definitions of housing terms in common use, 11267
 intradepartmental committees, councils and boards, 11261
 IP series, 4387, 5744-48, 7076, 8398-8400, 11264-265, 12813-815, 14387-392, 15835-836
 legislation of interest enacted during 90th Congress, summary, 5751
 letter of credit procedures (recipient organizations), HUD handbook, 15828
 library, periodicals, subject index, 4390
 low-rent public housing program fund, financial statements—
 GAO audit, 5684
 GAO examination, 9252
 MP series, 779, 4388-90, 5740-50, 7077, 8401, 11266-271, 12816-817, 14393-396, 15837-838
 newsletter, 15834
 press releases, 3295
 programs—
 fair housing laws and other Federal civil rights laws and Executive orders, 9944
 general information, 14293
 of interest to—
 low-income people, 17086
 planners, 17087
 selected, 11265
 rehabilitation grants and loans to meet insurability requirements of your property, 15836
 report, 1966—
 departmental edition, 4382
 document edition, 3973
 report, 1967—
 departmental edition, 4383
 document edition, 3974
 role in urban transportation, 4387
 Rossmore Leisure World Developments, FHIA's decision not to require builders cost certification, GAO report, 5686

- Housing and Urban Development Department—Continued
 Secretary, nomination of George W. Romney, hearing, 5430
 State laws enacted in 1968 of interest to HUD, 14397
 statistical yearbook, 15837
 this is operation breakthrough, 15844
 TS series, 785, 1996-97, 5752
 Under Secretary, nomination of Richard C. Van Dusen, hearing, 5431
 urban renewal rehabilitation program, improvements needed in management, GAO report, 8330
- Housing Assistance Administration, local authorities participating in low-rent programs, 3083
- Housing Insurance, *see* Mortgage Insurance.
- Houston, David R., use of soil fumigants to control spread of *Fomes annosus*, 15770
- Houston, Tex.:
 area wage survey, 16021
 Houston-Galveston Metropolitan Intra-state Air Quality Control Region, report for consultation, 17354
 Houston Intercontinental Airport, dedication (address), 9174
- Houston Ship Channel, radioactive sediment tracer tests, 5571
- Houthakker, Hendrik S., nomination, hearing, 4074
- Hovercraft, *see* Air cushion vehicles.
- Hovering:
 ducted-propeller V/STOL model, investigation of dynamic stability characteristics of quad configuration, 1584
 hover and forward flight, theory for predicting rotational and vortex noise of lifting rotors, 10079
 VTOL aircraft in hover, model tests on jet-induced lift effects, 7233
 VTOL hovering tasks, use of six-degrees-of-freedom motion simulator, 14630
- How far a star, supplement in space oriented concepts for science and mathematics curricula for intermediate grades, 11401
- How foreign policy is made, 16467
- How our laws are made, 9420, 12144
- How to buy lawn seed, 14993
- How to investigate, copyright status of work, 12333
- How to respect and display our flag, 16522
- How to use USDA grades in buying food, 6394
- Howard, B. Y., radiation chemical reactions of olefins with methanethiol and with methylsilanes and of dimethylamine, 5159
- Howard Marion, school continues for pregnant teenagers, 4185
- Howard County, Ark., community profile, 15567
- Howard County, Tex., soil survey report, 7466
- Howe, Harold II:
 people who serve education, report on state of education professions, 4180
 remarks—
 Oct. 26, 1968, 589
 Nov. 18, 1968, 582
 Dec. 3, 1968, 1814
- Howe, John T., some fluid mechanical problems related to subsonic and supersonic aircraft, 1041
- Howe, R. M., computer mechanization of reentry equations with 4 degrees of freedom, 1036
- Howell, Edgar M., United States Army headgear to 1854, 8707
- Howell, John R., thermal radiation heat transfer, radiation exchange between surfaces and in enclosures, 10096
- Howenstine, E. Jay, rising construction costs and anti-inflation policies, report on Western Europe, 14464
- Howes, Walton L., phenomenological theory of loudness, 16173
- HSMHA, *see* Health Services and Mental Health Administration.
- Hu, Wellington W., transient solidification outside cooled pipe with application to solar Brayton heat receiver, 1114
- Hubbard County, Minn., community action program, effectiveness and administration, GAO report, 12737
- Hubbard Creek watershed, Tex., water-quality records, 8364
- Hubbell, J. H., photon cross sections, attenuation coefficients, and energy absorption coefficients, from 10 keV to 100 GeV, 14668
- Hubert, L. P., estimating maximum wind speed of tropical storms from high resolution infrared data, 9727
- Hubs, hub clamps, Federal item identification guide, 15515
- Huck, Frederick O.:
 analytical procedure for optimizing television systems for planetary descent missions, 4748
 requirements of Martian television experiment for three point-mass descent trajectories, 4749
- HUD, *see* Housing and Urban Development Department.
- Huddell, Howard D., AUTEC sediment deposition/erosion study interim report, 13219
- Huddle, Franklin P., technology assessment of Vietnam defoliant matter, case history, 15331
- Hudson, C. Michael, effect of stress ratio on fatigue-crack growth in 7075-26 and 2024-T3 aluminum-alloy specimens, 14635
- Hudson, John A., navigator, 3179
- Hudson, Wayne R.:
 nonlinear flux flow in single crystal niobium, 10126
 transistor performance in intense magnetic fields, 16177
- Hudson Bay:
 quality of surface waters, 14376
 sailing directions, change, 16298
- Huebner, Victor R., rapid identification of microorganisms by continuous particle electrophoresis, 102
- Huerta, J. E., reserve marine, 3387
- Huff, Ronald G.:
 convective heat-transfer coefficients from solution of conduction equation for wall separating 2 fluids, 1 having oscillating temperature, 17253
 thermocouple technique for measuring hot-gas-side wall temperatures in rocket engines, 12095
 variation of convective heat-transfer coefficient around simulated rocket cooling tube section, 10117
- Huffman, Everett L., development of transport depletion processes, 9974
- Hughes, Bernard C., nuclear construction engineering technology, 7689
- Hughes, J. Kenrick, Lunar Orbiter I, preliminary results, etc., 11429
- Hughes County, Okla., soil survey report, 6243
- Huibers, D. Th. A., ozone treatment of secondary effluents from waste-water treatment plants, 15745
- Hulls (ship):
 cargo ship hulls, high-strength low-alloy steel weldments, study of factors which affect adequacy, 16400
 ship hull girders, feasibility study of model tests, 11658
- Human anatomy, *see* Anatomy.
- Human as optimal controller and information processor, 1004
- Human Development Corporation, community action program, effectiveness and administration, FAO report, 14307
- Human dimensions of atmosphere, 1232
- Human ecology, *see* Ecology.

Human engineering:

- human—
 - as optimal controller and information processor, 1004
 - factors research and development, 14th annual conference, proceedings, 5128
 - operator analysis using regression analysis, study, 4676
 - responses to aerospace environment, compendium, 1024-26, 2188
 - information-man-machine problems, USSR study, 8499
 - teleoperator controls, AEC-NASA technology survey, 7246
- Human factors engineering, *see* Human engineering.
- Human Factors Laboratory, reports, bibliography, 7378
- Human investment programs (series), 4378
- Human nutrition act of 1969, 9327
- Human personality and modern technology, USSR, 5865
- Human race, *see* Man.
- Human relations, *see* Industrial relations.
- Human resources, *see* Ability.
- Human rights, *see* Civil rights.
- Human Rights Year, International, *see* International Human Rights Year.
- Human Rights Year, President's Commission for Observance, *see* President's Commission for Observance of Human Rights Year.
- Human transfer functions, application to systems analysis, 17229
- Humanists, younger, fellowships and summer stipends, 14678
- Humanities, arts and the humanities, Office of Education support, 4189
- Humanities, National Endowment for the, *see* National Endowment for the Humanities.
- Humbert, Richard:
 - basic data on economy of Spain, 3900
 - selling in Spain, 7801
- Humboldt County, Calif.:
 - flood water information, 9691
- Mad River, flood control, engineers report—
 - departmental edition, 598
 - document edition, 360
- Philipsville and Garberville communities, South Fork Eel River floods, 14150
- timber resources, 4334
- Humboldt National Forest, Wheeler Peak Scenic Area, general information, 14297
- Humboldt Range, Star Peak Group (Triassic) and overlying lower Mesozoic rocks, stratigraphy, 7053
- Humes, John P., nomination, hearing, 15454
- Humidity:
 - atmospheric, measurement near snow surface, 1924
 - body armor in hot humid environment, studies in—
 - heat acclimatized men, 16057
 - unacclimatized men, 14512
- Hummel, Don:
 - addresses, etc.—
 - Oct. 10, 1968, 766
 - Oct. 18, 1968, 763
 - Oct. 25, 1968, 780
 - Nov. 6, 1968, 1995
- Humphreys County, Tenn., forest inventory statistics, 6323
- Humus, *see* Soils.
- Hungarians:
 - in Rumania and Transylvania, bibliographical list, 13860
 - print as House document, report, 381
- Hungary:
 - Ambassador, nomination of Alfred Puhán, hearing, 8065
 - mineral industry, minerals yearbook chapter, 14540

Hungary—Continued

- records of Dept. of State, microcopy, pamphlet to accompany—
 - internal affairs, 2278
 - political relations with U.S. and other states, 2279
- see also* Austria-Hungary.
- Hunger:
 - American Hunger Commission act, hearings, 5373
 - fight hunger in America, donated foods, handbook for volunteers, 9497
 - food gap, extent of poverty and malnutrition in United States, 15477
 - food programs, message from the President, 7862
 - food stamps to end hunger, 6398
 - human needs—
 - Florida, hearings, 10917
 - national nutrition survey, hearings, 8087, 10917, 12316, 14058, 15478, 16895
 - Nixon administration program recommendations, hearings, 12316
 - problems and prospects, hearings, 5436
 - South Carolina, hearings, 8087
 - hunger and malnutrition, a world problem (address), 26
 - hunger and malnutrition in United States, hearings, 5373
 - hunger and malnutrition, message from the President, hearings, 9444
 - in America, chronology and selected background materials, 495
 - in our midst, special report, 9633
 - Jimmy has more fun, donated foods program, 12326
 - lack of food, study authorization, reports, 1727, 5420
 - war on hunger, monthly news report, 3581
 - you can help fight hunger in America, food stamp handbook for volunteers, 9498
- Hunger Commission, establish, hearings, 5373
- Hungry Horse project, general information, 14834
- Hunsberger, Robert J., fifteen years of numerically controlled machine tools, 1954-68, 16638
- Hunt, George P., union contract expirations in north central region, July 1969-70, 14465
- Hunt, James L., heat transfer to windward side of fineness-ratio 2.9 cylinder with nearly spherical ends at Mach numbers of 6 and angles of attack of 50°, 70°, and 90°, 11466
- Hunt, L. Roane, exploratory study of open-face honeycomb to reduce temperature of hypersonic aircraft structure, 11482
- Hunt, R. W., Cabriolet, preshot geological engineering investigations for Project Cabriolet, Pahute Mesa, Nevada test site, 1602
- Hunter, Yolanda F., relief, 9272, 12105, 13965
- Hunting:
 - migratory birds, 1969-70, Federal regulations governing, 13461, 14884
 - public access to public domain lands, 2 case studies of landowner-sportsman conflict, 1514
- Hunting Creek:
 - Va., permit for landfill—
 - hearing, 6716
 - report, 6694
- Huntingdon, Pa., railroad accident, report, 11105
- Huntington Beach, Calif., population, special census, 5223
- Huong Nguyen Thi, *see* Nguyen Thi Huong (Linh).
- Hurley, Evelyn M., business financing by business finance companies, 5642
- Hurley, William J., relief, 6592

- Huron Islands National Wildlife Refuge:
designate as wilderness, report, 9430
designate certain lands as wilderness,
hearing, 479
- Huron, Lake, currents at Harbor Beach,
Mich., 903
- Hurricanes:
Camille, food, help, picture story, 13603
greatest storm on earth, 8188
hurricane surge frequency estimated for
Gulf Coast of Texas, 10995
information and Atlantic tracking chart,
9729
naming of hurricanes, 13535
national hurricane operations plan, 11053
tropical, Atlantic, climatology, erratum,
616
- Hurst, Ned S., effect of selected soft drink
mixes on germicidal properties of iodine
tablets, 14510
- Hurst, Robert L., rural housing in North-
east Coastal Plain area of South Carolina,
10966
- Hurwitz, Martin G., mathematical deter-
mination of geometrical image aberrations
in single- and double-mirror systems, 1052
- Husbands and wives:
taxation of married couples, tax reform
hearings, summary of testimony, 15348
wives' report, aircrew attitudes and job
satisfaction trends, 100
- Husby, David M.:
oceanographic cruise, USCGC Northwind,
northern Bering Sea, Bering Strait,
Chukchi Sea, 12063
oceanographic observations north Atlantic
Ocean Station DELTA, 44° N 41° W,
July 1966-Aug. 1967, 12062
- Huss, Ralph E.:
despatches from U.S. consuls in—
Chihuahua, 7315
Guaymas, Mexico, 1832-96, 14660
LaPaz, Mexico, 1855-1906, 16219
Manzanillo, Mex., 6031
Nogales, Sonora, Mexico, 10167
Tuxpan, Veracruz, 7316
records of Dept. of State on internal
affairs of Turkey, 13151
records of Dept. of State relating to po-
litical relations between U.S. and
El Salvador, and between El Salvador
and other states, 7318
- Hustad, Paul A., force-penetration character-
istics of sand horizontally penetrated by
plates, cones, and spherical segments, 4673
- Husted, Wilfred M., Bighorn Canyon arche-
ology, 8852
- Huston, Robert J., wind-tunnel and analyt-
ical study of conversion from wing lift
to rotor lift on composite-lift VTOL air-
craft, 11471
- Hutchins, Clayton D., statistics of State
school systems, 5555
- Hutchinson, John E.:
Brazilian agriculture situation, a look
ahead, 571
Peruvian agriculture situation, look
ahead, 12415
- Hutton Branch:
and Cooks Branch, floods in Dallas County,
Tex., how to avoid damage, 12532
flood plain information, 12461
- Huvos, Joseph B.:
mineral industry of—
Hungary, 14540
Rumania, 13019
- Hyde, Floyd H.:
addresses—
Mar. 15, 1969, 8391
Aug. 28, 1969, 14383
Oct. 1, 1969, 15823
nominations, hearing, 5431
- Hyde, Rosel H., address, June 24, 1969,
11052
- HYDRA survey system development, test
and evaluation, 10217
- Hydrated foods, *see* Dried foods.
- Hydrates:
development of propane hydrate desalting
process, 801
reaction kinetics, 799
- Hydraulic engineering, circular, 8826
- Hydraulic fluids, *see* Fluids.
- Hydraulic machinery, hydraulic equipment,
welding repair, 13398
- Hydraulic mine filling:
chemical stabilization of uranium tailings
at Tuba City, Ariz., 14552
design of dams for mill tailings, 10050
Nevada copper porphyry mill tailing,
chemical and vegetative stabilization,
10062
radon 222 near uranium tailings piles,
evaluation, 17333
- Hydraulic mining, *see* Mines and mining.
- Hydraulic turbines, *see* Turbines.
- Hydraulics:
alluvial channel, response to changes of
hydraulic and sediment-transport vari-
ables, 15802
analysis of pipe-arch culverts, electronic
computer program, 4905
applications of hydraulics, 1971, 5725,
11249
Columbia River, estuary, verification,
model studies, 5572, 16969
fast-response electrohydraulic control sys-
tems, modular servoamplifier, design
and analysis, 1115
fast response (150 to 200Hz) electro-
hydraulic servos performance limita-
tions, analysis, 14633
flow and retention of water in layered
soils, 8949
hydraulic transportation of coarse solids,
materials handling research, 14549
improved technique for taking hydraulic
conductivity cores from forest soils,
17026
model investigations—
Arkansas River—
Dardanelle Lock, filling and emptying
system, 9717
navigation conditions—
Fort Smith reach, 607
lock and dam no. 7, 8186
Ozark Lock and Dam, 1828
Robert S. Kerr Lock and Dam, 605
Webbers Falls Lock and Dam, 15668
Crescent City Harbor, design for opti-
mum wave conditions, 606
fish ladders for John Day Dam, Colum-
bia River, Oreg. and Wash., 5569
Galveston Harbor entrance, Tex., study,
5574
Monterey Harbor, Calif., wave and surge
conditions after proposed expansion,
608
Newburgh Lock, Ohio River, effect of
valve position in sidewall port filling
system, 1827
spillway for Rend Lake Reservoir, Big
Muddy River, Ill., 11017
pipe-arch culverts, hydraulic analysis,
electronic computer program, 16381
research in United States, 11522
- Hydrazine:
hydrazine—nitrogen tetroxide combustion,
dynamic response to transverse gas flow,
5992
nitrogen tetroxide-hydrazine combustors,
performance, and stability characteris-
tics, 1055
pharmacology and toxicology of propellant
hydrazines, 10524
- Hydroacoustics, *see* Sound.
- Hydrobiology, *see* Marine biology.

Hydrocarbons:

- missile fuels, identification methods, military standard, 5497
- petroleum, chemism and physicochemical properties of processes of microbiological oxidation of, USSR study, 12876
- thickened hydrocarbon flame fuels, consistency determined by mobilometer test, military standard, 4137
- vapor-phase oxidation of hydrocarbons, effect of oxygen concentration on platinum-catalyzed combustion and ionization, 13284

Hydrochloric acid:

- atmospheric emissions from manufacturing processes, 17345
- cuprous chloride in, analysis and solubility, 1537

Hydrodynamics:

- and water waves, introduction—
 - fundamentals, 14168
 - water wave theories, 14169
- hydrodynamic stability of inviscid rotating coaxial jets, 8602
- hydrodynamic theory of—
 - desalination by electrodialysis, 802
 - short-range weather forecasting, USSR study, 7131
- hypervelocity impact analysis by method of characteristics, 4754
- laminar flux of dense plasma theory of stability, 16615
- maneuverability of aquatic animals, USSR study, 12911
- new momentum-integral method for treating magneto-hydrodynamic and simple hydrodynamic entrance flows, 10133
- school formation of fish, hypothesis, USSR study, 15974
- studies for electrodialysis, 15856

Hydroelectric power, see Electricity.**Hydroelectric power plants, see Electric power plants.****Hydrofluoric acid, recovery from waste fluosilicic acid, preliminary studies, 4637****Hydrogen:**

- acoustic-mode instability in hydrogen-oxygen rocket, effect of injection element radial distribution and chamber geometry, 14623
- anodic oxidation, on iron and platinum in sodium hydroxide solution, 6137
- collisions of 2 hydrogen molecules, calculated interaction energy and dipole moment in, 17234
- effects on lactic acid production in rat liver slices, 13631
- evolution during aqueous oxidation of mild steel, study, 14750
- flowing through parallel hexagonal passages at surface temperatures to 2275 K, heat transfer coefficients for, 4706
- gas pressure vessel problems in M-1 facilities, 5986
- gaseous-hydrogen requirements for discharge of liquid hydrogen from 1.52 meter (5-ft-) diameter spherical tank, 13115
- generation, and embrittling effect, from hot-salt stress-corrosion of titanium alloys, 4728
- halides, use in producing dispersion strengthened chromium by ball milling, 1127
- hydrogen-oxygen electrolytic regenerative fuel cells, 10069
- induction plasma heating, high power, low frequency operation and pure hydrogen heating, 10083
- kryptonate hydrogen detection system, final report, 5164

liquid—

- and freon-114 data in sealed venturis, prediction of developed cavitation, 1116
- discharge, from 3.96 meter (13-ft-) diameter spherical tank, gaseous-hydrogen pressurant requirements, 14632

Hydrogen - Continued**liquid, continued**

- friction and wear of 9 polymers with various fillers, 6018
- liquid-hydrogen tanks, low-density foam for insulating, 7284
- liquid oxygen/liquid hydrogen explosive effects in controlled failure mode tests, 14629
- rocket acoustic-mode-instability studies at nominal thrust of 20,000 pounds, interim summary, 2262
- spherical tankage, effect of size on normal-gravity self-pressurization, 10125
- measurement of liquid and two-phase hydrogen densities with capacitance density meter, 10103
- oxygen consumption and hydrogen production by shrink-resistant grouts in confined places, 10067
- plasma components, including minor species, 4723
- slush, fluid characterization and instrumentation, 6051
- slush, gels, preparation and characterization, 10178
- theoretical thermodynamic properties at high temperatures and densities, numerical results, 2352
- two-phase, flow in pump inlet line, investigation, 13079
- venting of liquid hydrogen tankage, 11171
- water-to-cryogenic-hydrogen heat exchanger, heat transfer characteristics, 16178
- Hydrogen-ion concentration, table for converting pH to hydrogen ion concentration $[H^+]$ over range 5-9, 9089
- Hydrogenation, ethylene on metallic catalysts, errata, 8667
- Hydrogenomonas, cultures, systems approach to evaluating, 7232
- Hydrogeology:
 - data related to establishment of pumping station in Everglades National Park, Fla., 8349
 - geohydrology and water utilization in Willcox Basin, Graham and Cochise Counties, Ariz., 7059
 - Navajo and Hopi Indian reservations (series), 5715, 8353
 - regional, Navajo and Hopi Indian Reservations, Ariz., N. Mex., and Utah, 8353
 - Scioto River Valley near Piketon, south-central Ohio, 9933
 - upper Capibaribe Basin, Pernambuco, Brazil, reconnaissance in area of crystalline rocks, 11251
- Hydrography:
 - HYDRA, hydrographic digital positioning and depth recording, system, development, test and evaluation, 10217
 - survey data reduction by automatic plotter, 13216
 - Surveymarine, high speed hydrographic survey platform, 10222
- Hydrology:
 - and some effects of urbanization on Long Island, N.Y. (series), 15806
 - Brookhaven National Laboratory and vicinity, Suffolk County, N.Y., 728
 - contributions to hydrology—
 - Asia and Oceania (series), 7058
 - Latin America and Antilles (series), 11251
 - United States (series), 1975-76, 5728, 7059, 7062, 11253, 12798, 14373-374
 - contributions to stream-basin hydrology (series), 8351
 - course in hydrologic services, 6318
 - Crafter, East and Davis Lakes, Oreg., 1975
 - ground-water, of lower Great Miami River Valley, Ohio, 1969
 - hydrologic data, compilation -
 - Calaveras Creek, San Antonio River, Tex., 12761, 14338
 - Cow Bayou, Brazos River basin, Tex., 12762

Hydrology—Continued

- hydrologic data, compilation—continued
- Deep Creek, Colorado River basin, Tex., 12763
- Elm Fork Trinity River, Trinity River basin, Tex., 11238
- Escondido Creek, San Antonio River basin, Tex., 11239, 14339
- Little Elm Creek, Trinity River basin, Tex., 14340
- Mukewater Creek, Colorado River basin, Tex., 12764
- North Creek, Trinity River basin, Tex., 11240
- Waller and Willbarger Creeks, Colo. River basin, Tex., 12765
- hydrologic effects of Canal 111 near Homestead, Fla., 14358
- hydrologic effects of 1962-66 drought on Long Island, N.Y., 7062
- hydrologic effects on urban growth (series), 4370, 9932
- hydrologic equipment, 1491
- hydrological conditions in Clear Lake, Tex., 6551
- hydrology of aquifer systems (series), 8352
- hydrology of volcanic-rock terranes (series), 11243
- Lava Beds National Monument and vicinity, Calif., geologic and hydrologic reconnaissance, 8348
- Rio Sao Francisco Basin, Brazil, reconnaissance appraisal, 10351
- river adjustment to altered hydrologic regimen, Burrumbidgee River and Paleochannels, Australia, 4366
- Salt Lake County, Utah, 1967 hydrologic and climatologic data, 9906
- Southern Utah and Goshen Valleys, Utah, selected hydrologic data, 14361
- theoretical papers in hydrologic and geomorphic sciences (series), 7051
- United States and Canada, bibliography, 7060, 13534
- urban hydrologic systems, considerations involved in evaluating mathematical modeling, 9932
- vegetation and hydrologic phenomena (series), 4361
- see also* Water.
- Hydrolysis:
 - nonenzymatic browning in model systems containing sucrose, 92
 - sucrose, at limited water concentration, 1543
- Hydromagnetic systems, equations, spherical harmonic expansion, tables of integrals for, 5577
- Hydromagnetic waves, *see* Magnetohydrodynamics.
- Hydromechanics, fluidic vortex valve servomotor development, 15056
- Hydrometeorology, hydrometeorological reports, 6349, 17438
- Hydrooptics, responses to underwater distortions of visual stimuli, 927
- Hydroxides, solubility of aluminum in presence of hydroxide, 8383
- Hygiene:
 - general and municipal hygiene, 1966-67, East Germany, 7125
 - hygienic significance of metaphos as atmospheric pollutant, USSR study, 15904
 - industrial, publications, price list, 4866*see also* Health.
- Hygiene Industrial Week, National, *see* National Industrial Hygiene Week.
- Hygienists, *see* Dental hygienists.
- Hyland, Howard L., plant inventory, plant material introduced, 11798
- Hymenopenaeus robustus, *see* Shrimps.
- Hymenoptera, *see* Bees—Wasps.
- Hyperbaric chambers, *see* Test chambers.

Hypercapnia:

- chronic, stress response, 919
- maximum rate analysis of erythrocyte carbonic anhydrase in hypercapnic guinea pigs, 13001
- response of normal man to graded exercise in progressive elevations of CO₂, 7635
- Hypersonic flow, *see* Flow.
- Hypersonic speed, *see* Air speed.
- Hypertension, *see* Blood pressure.
- Hypervelocity impact analysis by method of characteristics, 4754
- Hypobaric storage of mature green tomatoes, 11873
- Hypobarism, radiation mortality of rodents under hypobaric-hypoxic conditions, 11902
- Hypoxia:
 - acute, effects on cardiac output and regional blood flow in conscious rats exposed to, 2131
 - adaptation to, and resistance of organism, problems of space biology, 13148
 - pharmacological drugs which increase resistance, USSR study, 8510
 - radiation mortality of rodents under hypobaric-hypoxic conditions, 11902
- Hypoxylon canker of aspen, 11161
- Hyvarinen, Matti J., using d.b.h. and butt log quality to estimate tree yields by saw log grade, 4313

I

- I.A.E.A., *see* International Atomic Energy Agency.
- I & N reporter, 2966
- I.C.C., *see* Interstate Commerce Commission.
- I.G.Y., *see* International Geophysical Year, 1957-58.
- I.R.S., *see* Internal Revenue Service.
- IAEA, *see* International Atomic Energy Agency.
- IAGLO, *see* International Association of Governmental Labor Officials.
- Iapalucci, T. L., chlorine in coal combustion, 10061
- ICAF, *see* Industrial College of Armed Forces.
- ICAS, *see* Interdepartmental Committee for Atmospheric Sciences.
- ICC, *see* Interstate Commerce Commission.
- Ice:
 - aircraft icing, forecasters' guide, 6412
 - bubble coalescence in ice, tool for study of its deformation history, 9031
 - bubbles and bubble pressures in Antarctic glacier ice, 1575
 - buoyancy stabilized hot point drill for glacier studies, 135
 - conditions, weather and crop bulletin (periodical), 3600
 - crowds on ice, 3748
 - cryodeposits, absorption of infrared radiation, 8641, 13072
 - determining dynamic properties of snow and ice by forced vibration, 15039
 - eastern Arctic—
 - long-range outlook, 2339
 - seasonal outlook, 8755
 - electrolytic conductivity of glacier ice from Antarctica and Greenland, 1574
 - formation and reduction of ice fog, 11929
 - Great Lakes ice atlas, 11357
 - Great Lakes ice cover, winter, basic data reports, 4610, 17158
 - ice and frozen soils, laboratory determination of dynamic moduli, 10541
 - ice and snow, surface measurements, for correlation with aircraft and satellite observations, 10542
 - ice particle size distribution from freeze desalination crystallizers, development of methods for determining, 7087
 - icephobic surfaces, experiments, 13644

Ice—Continued
 matrix, that undergoes simple shear deformation, diffusion law for dispersion of hard particles, 3744
 observations, oceanographic office observers manual, 14735
 ring tensile strength studies, 7650
 river ice conditions, effects of thermal pollution on, simplified method of calculation, 15649
 river ice jams, literature review, 904
 thermal instability in layer of water formed by melting ice from below, 7648
see also Ice crystals.
 Ice breakers, polar, Coast Guard, authorization for procurement hearings, 6724
 Ice crystals:
 continuous washing of brine from ice, 9972
 effect of growth parameters on substructure spacing in NaCl ice crystals, 9030
 growth rates, 799
 microspherules in snow and ice-fog crystals, 11930
see also Ice.
 Ice Harbor Dam, fish passage report, 14148
 Icebergs, Glacier Bay National Monument (poster), 6090
 Iceland:
 agricultural commodities, agreement, 6279, 13481
 background notes, 11697
 economic trends and their implications for United States, 9988
 lights and fog signals, list, 1246, 8752, 17302
 sailing directions, change, 17300
 Ickes, Paul W., asbestos, 14521
 ICLR, *see* Injury Control Research Laboratory.
 IDA, *see* International Development Association.
 Idaho:
 Agricultural Stabilization and Conservation Service—
 annual activity summary—
 1st Congressional District, 13562–563
 2d Congressional District, 13564–565
 annual report, 11822
 census of business, 1967—
 retail trade, area statistics, 9102
 selected services, area statistics, 15091
 wholesale trade, area statistics, 15102
 climatological data, 2662
 dealers in trout and pondfishes, list, 10388
 electric rate book, 14217
 Federal careers in Northwest, 12042–43
 Federal outlays, report of Federal Government's impact by State and county, 9545, 9595
 mineral industry, minerals yearbook chapter, 2142
 northern, Albeni Falls Dam, Pend Oreille River, general information, 14147
 precipitation data, hourly, 2962
 soil surveys, soils and people, what they can do for you, 14866
 southeastern, phosphate fines, evaluation, 2172
 Utah interconnection, power interruption, 12619
 water resources data, 8368
 water supply outlook and snow surveys, 3585
 Ideas for managers, 16921
 Identification:
 adaptive simulation using mode identification, 1009
 aircraft and related products, Federal aviation regulations, 5590, 12583
 decoder and display for general-aviation aircraft navigation aid, 17224
 dentures, 1539
 semi-automated single fingerprint identification system, 7329

Identification—Continued
 standard guides for preparation of proposed item logistics data records and proposed item identifications by Government suppliers, 6980
 system, applications of quasilinearization theory, 11489
 telemetric automated microbial identification system (TAMIS) and subsystems, 80
 Ideology:
 effectiveness of ideological work, USSR review, 5848
 Soviet ideology defended, extended training urged, 841
 Soviet people need improved ideological education, 5846
 United States ideological offensive in winning cold war—
 hearings, 9345
 report, 6699
 Idiopathic respiratory distress syndrome, proceedings of interdisciplinary conferences, 17277
 If you must smoke, 13348
 If you're not part of the solution, you're part of the problem, 16945
 If you're not ready for another baby, 14121
 IFAC, *see* International Federation of Automatic Control.
 IFR, *see* Instrument flight rules.
 Igneous rocks:
 Boulder batholith region, Mont., distribution of thorium, uranium, and potassium and its bearing on radiogenic heat production and heat flow, 15805
 gold in igneous, sedimentary and metamorphic rocks, 5709
 hydrology of volcanic-rock terranes (series), 11243
 petrology of basalt cores from Midway Atoll, 15807
 Poison Ridge volcanic center, Grand and Jackson Counties, Colo., 5706
 volcanic rocks in Jemez Mountains, N. Mex., stratigraphic nomenclature, 9889
see also Lava.
 Ignition, electrical ignition for prescribed burning, 11159
 IGRF (International Geomagnetic Reference Field), *see* Terrestrial magnetism.
 IGY, *see* International Geophysical Year, 1957–58.
 Ike, Albert F., symptoms of nutrient deficiency in yellow-poplar seedlings, 7011
 Illinois:
 Agricultural Stabilization and Conservation Service annual report, 5025, 11823
 apples, marketing order authority, extend, report, 16871
 census of business, 1967, retail trade, area statistics, 13736
 climate, 14160
 climatological data, 2662
 dealers in trout and pondfishes, list, 10389
 electric rate book, 9785
 Federal outlays, report of Federal Government's impact by State and county, 9546, 9596
 floodflows from small drainage areas, preliminary flood-frequency relations, 8344
 floods in—
 Sycamore NE quadrangle, 8346
 Sycamore SE quadrangle, 8347
 mineral industry, minerals yearbook chapter, 2143
 northern, occupational trends in sanitary services, warehouses, and stockrooms, 14466
 pollution of—
 interstate waters, conference proceedings, 11146
 Lake Michigan and its tributary basin, conference proceedings, 14241

- Illinois—Continued
 - precipitation data, hourly, 2962
 - sesquicentennial of statehood, 1818-1968, exhibition in Library of Congress, 906
 - uranium reconnaissance, preliminary, 13709
 - water resources data, 8369
- Illinois, Central RR.:
 - accident report, 11106
 - emergency board report, 4191
- Illness, *see* Diseases—Sick.
- Illumination, *see* Lights and lighting.
- Illusions, *see* Hallucinations and illusions.
- Illustrations, use of illustrations for paper money, postage and revenue stamps, and other obligations of United States and foreign countries, 14851
 - see also* Photographs.
- ILO, *see* International Labor Organization.
- Image intensifiers, intensification and reduction of Kodak no-screen medical X-ray film, 6138
- Image-motion compensation, sensor data from Lunar Orbiter I, determination of lunar equatorial radius, 11459
- Image sensors, *see* Sensors.
- Images:
 - conversion, use of cybernetics, USSR studies, 5858
 - geometrical image aberrations in single- and double-mirror systems, mathematical determination, 1052
 - image enhancement with prolate spheroidal wave functions, 6148
 - motion-degraded images, evaluation, 13059
 - rendezvous and station-keeping simulator with fly around capability and virtual-image viewing, 7290
 - resolution and image intensity of field-ion microscope, 7291
 - visual simulation image generation using flying-spot scanner, 7300
- Imig, L. A., fatigue of notched Ti-8Al-1Mo-1V titanium alloy at room temperature and 550°F (560°K) with flight-by flight loading representative of supersonic transport, 11486
- IMIS (series), 9999
- Immigration and emigration:
 - Castle Garden immigrant depot, 1855-1890, 13183
 - immigration and nationality act—amend—
 - hearings, 406
 - reports, 9287-88, 15367
 - text including amendments, 7966
 - worker certification program under the act, 10012
 - in-migration into United States of aliens in professional and related occupations, annual indicator, 15845
 - international migration of talent and skills, hearings, 487
 - investigation, authorization, report, 4061
 - laws, administrative decisions, 11272
 - index, 8405, 14398
 - publications, price list, 1327
 - Western Hemisphere businesses, executive officers and managerial personnel, exempt from numerical limitation, report, 15367
- Immigration and Naturalization Service:
 - annual report, 8402
 - immigration patrol inspector, examination announcement, 1639, 7766
 - I & N reporter, 2966
 - Interim decisions, 2985
 - services provided, need to revise fees, GAO report, 15785
- Immigration border patrol, *see* Border Patrol, Immigration and Naturalization Service.
- Immigration inspectors, examination announcement, 7766
- Immigration patrol inspectors, *see* Immigration inspectors.
- Immunity, tetanus immunity in USSR population, USSR study, 15957
- Immunization, hemolytic disease of fetus and newborn due to RII isoinmunization, 13777
- Immunobiology, journal of microbiology, epidemiology, and immunobiology, selections, 11327
- Immunoelectronics, *see* Electronics.
- Immunology:
 - biological and medical applications, 9080
 - telemetric automated microbial identification system (TAMIS) and subsystems, 80
 - transplantation immunology research, collaborative program of National Institute of Allergy and Infectious Diseases, 16266
- Impact:
 - bioengineering on engineering education, conference proceedings, 185
 - energy-absorbing strut employing tube cutting, 2243
 - erosion, multiple liquid, experimental and analytical investigations, 5982
 - fatal injuries resulting from extreme water impact, 10578
 - full-scale dynamic landing, or prototype lunar module landing gear, investigation, 7251
 - hypervelocity impact—
 - analysis by method of characteristics, 4754
 - craters in aluminum, projectile shape effects, 2252
 - particle, effect on performance of N/P silicon and cadmium sulfide solar cells, 8625
 - response of infinite elastic plate to axisymmetric initial velocity distributions, 8621
 - inflatable landing system having omnidirectional and multiple-impact capabilities, analytical investigation, 10145
 - injury to pregnant female and fetus in lap belt restraint, 10580
 - metal alloys under hyper-velocity impact, crater characteristics, including effects of projectile density and target temperature, 8627
 - momentum transfer associated with impact into thin aluminum targets, experimental investigation, 17239
 - petroleum development in Gulf of Mexico, 10048
 - protection with advanced restraint systems, preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness, experimental, 16636
- Impacted areas, *see* Schools.
- Impedance:
 - acoustic data, reduction by aid of PDP-8 FORTRAN program, 8764
 - admittance of parallel-plate aperture illuminating displaced dielectric-dielectric boundary, 6004
 - internal and effective length of elements of receiving array, 10262
 - mechanical, measurements, concrete vibration study, 15667
 - mutual impedance of loop antennas over finitely conducting ground, 15674
 - simulation fixtures for spacecraft vibration test, development, 10086
- Impellers, fluid reaction surfaces, classification definitions, 13313
 - see also* Blowers.
- Imperial National Wildlife Refuge, general information, 11688
- Imperialism, socialist unity against imperialist strategy urged, USSR study, 845

Implants:
 artificial heart implantation, USSR study, 12948
 implantable power source for circulatory support devices, study, 9070
 subdermally implanted devices, battery life and moisture penetration, 13633
Important facts about medical insurance part of medicare, 6236
An important medical discovery, 77
Importers, American, and Shipping act, 1916 (remarks), 5611
Imports:
 airborne, foreign trade reports, 2919
 commercial import detentions, monthly report, 2678
 consumption and general imports, 1628, 9167-68
 effects on United States groundfish industry, report, 11279
 foreign trade reports, 2909-10, 2914, 2916, 2920, 9166, 9168
 1958-68, adjusted and unadjusted data with seasonal and working-day factors, 3864
see also Tariff—*also* names or classes of articles imported—*also* names of countries, etc.
Imprint on living, report on progress, 5031
Improving environment for science in DHEW, 4375
Impurity profile and energy band diagram for cuprous sulfide-cadmium sulfide heterojunction, 6021
In Bae Yoon, *see* Yoon, In Bae.
In a quiet countryside, a disquieting subject, 16483
In this decade . . . mission to the moon, 11423
In vivo assessment of solubility of tooth enamel during FBM patrol, 923
In your service, the work of Uncle Sam's forest rangers, 14988
Inauguration Day, counter-Inaugural protest activities in Washington, D.C., response, 13225
Inauguration of the President, *see* President of United States.
Incentive awards, *see* Rewards (prizes, etc.).
Incentive contracting guide, DOD and NASA guide, 15495
Incentive pay, *see* Pay, allowances, etc.
Incentives in industry:
 new incentives increase industrial output, USSR study, 5829
 work incentive program for public assistance, recipients, 5440
Incinerators:
 District of Columbia Department of Sanitary Engineering, special studies, 4899
 municipal, residues, composition and characteristics, 2171
Incipient and developed cavitation in liquid cryogen, 6050
Income:
 Alaska, aggregate income model of semi-autonomous economy, 14193
 average family income up 8 percent in 1968, 13769
 averaging, tax reform hearings, summary of testimony, 10810
 changing patterns in New York City, facts, 16028
 consumer income, 1967—
 families in United States, 6502
 persons in United States, 10604
 consumer income, series, 5224, 6501-2, 10604-606, 13769, 15117, 16668
 definition of earned income for pension plans of self-employed individuals, report, 449
 exception income limits for housing, 5740
 families and persons in United States, 1967, supplementary report, 15117

Income—Continued
farm—
 costs and returns, commercial, by type, size, and location, 16536
 gross and net, statistical series of Agriculture Dept., 14987
 income situation, 2818
 homeownership for lower income families, 772
household—
 by selected characteristics of the head, 5224
 selected social and economic characteristics of households, 10606, 16668
 income-loss protection against illness, 2459
 income or budget costs by family type, revised equivalence scale for estimating, 890
low-income—
 consumers bibliography on marketing, 3826
 year-round workers with low earnings, 6501
lower income families—
 rental housing, 12814
 nonprofit sponsors of housing, general information, 14389
 New York City, changing patterns, 12981
 persons and families, Mar. 1969, selected characteristics, 13763
 public income-maintenance programs, effect of age and disability on access to, 1394
 railroads, selected items, 3425
 regular income limits for public housing by States, counties, etc., list, 17084
 rural, and expenditure sample survey in Vietnam, initial report, 14425
tax information—
 investment income and expenses, 8449
 rental and royalty, 8436
 retirement, and retirement income credit, 8437
tax returns statistics—
 business, 812, 12839, 14416
 corporations, 5777, 7099
 individual, 15874
 zip code area data, 9980
 taxable and nontaxable, 8454
see also subject from which income is derived.
Income tax:
 accounting periods and methods, tax information, 8445
 adjustments to income for sick pay, tax information, 12828
 allocation of deductions, tax reform hearings, summary of testimony, 15339
 computing your tax under income averaging method, 8425
corporations—
 and Federal income tax, 12829
 surcharge, continue, reports, 10739, 10742, 12270
corporations, speed-up payments—
 amendments, summary, 432
 conferees decisions, summary, 5439
 credit sales by dealers in personal property, tax information, 8426
deductions—
 alimony payments, 4410
 business expenses, 8446
 child care and disabled dependent care, 4407
 contributions, 5768
 educational expenses, 8448
 farm losses, moving expenses, and gasoline taxes, tax reform hearings, summary of testimony, 10814
 homeowners, tax information, 4419
 interest expense, 4411
 medical and dental expenses, 8427
 miscellaneous deductions, 8434
 moving expenses, tax information for employees and employers, 12836
 organizations to which contributions are deductible, list, 2722, 12830

Income tax—Continued

deductions—continued
repairs, replacements, and improvements, 12840
travel, entertainment, and gift expenses, rules, 2020
delinquent taxes owed to States, authorize State actions in D.C. to recover on reciprocal basis, report, 14009
District of Columbia, increase—
hearings, 15430
reports, 10774, 15407
double taxation, convention with—
Netherlands, text, etc., 15354
Trinidad and Tobago, 6300
employee pension, annuity, profit-sharing, stock bonus plans, etc., 809
employer's tax guide, 5765, 9978
Federal Government should grant annually specific percentage of its income tax to State governments, national debate topic for high schools, 1969-70, selected excerpts, etc., 15224
Federal income tax information for Armed Forces personnel, 1968 returns, 870
highlights of 1968 changes in tax law, 14411
how Federal tax applies to condemnations of private property for public use, 5767
income tax deduction for taxes, 14412
information on—
American scholars abroad, 8442
filing your tax return, 12833
self-employment tax, 8433
installment and deferred-payment sales, tax information, 12834
internal revenue bulletin, cumulative, index-digest supplement system, 11289, 15865
investment credit, terminate, reports, 10739, 10742, 12270
investment income and expenses, 8449
investment tax credits, terminate—
hearings, 10895
public hearing, 10808
IRS looseleaf regulations system, 810, 2017, 3088, 4413-14, 7093-94, 15869
laws, reform—
decisions reached in Executive session, compilation, 16883
effective date provisions, 16830
reports, 12200, 15242
print additional copies, report, 15247
revised summary list and brief description, 15946
statement of David M. Kennedy, Secretary of Treasury, 14029
summary—
committee print, 12295
report, 15338
supplemental report, 12201
print additional copies, report, 15248
technical memorandum of Treasury position, 15448
testimony, 14030, 16831
testimony and additional statements, 14027-28, 15434-447
Treasury Department statements and recommendations, hearings, 15449
losses from operating a business, tax information, 12835
older Americans, tax benefits, 8440
purposes, law and regulations relating to treatment of annuities, 11293
rental and royalty income, 8436
retirement income, 8437
returns statistics—
business, 812, 12839, 14416
corporations, 5777, 7099
individual, 15874
zip code area data, 9980
sales and exchanges of assets, 8438
sales and other dispositions of depreciable property, tax information, 12838
standard deduction, tax reform hearings, summary of testimony, 15345

Income tax—Continued

students and parents, 8443
surcharge—
extend—
hearings, 10895
message from the President, 6586
public hearings, 10808
reports, 10739, 10742, 12270
withholding tax rates for 15 days, reports, 12199, 15236
if not extended, employer's tax guide, supp., 9978
tax information—
deduction for bad debts, 14417
depreciation, investment credit, amortization, depletion, 8428
visitors to United States, 813
tax reform hearings—
individual deductions, summary of problems, 7988
individual and single persons, written statements of witnesses, 7984
minimum and maximum taxes, allocation of deductions, etc., summary of problems, 7989
tax reform subjects, press release announcing tentative decisions, 9376, 13945
tax treatment of individuals serving on U.S.S. Pueblo at time of capture by North Korea, report, 7911
tax withholding and declaration of estimated tax, 8453
taxable income and nontaxable income, 8454
10 percent surcharge extension (remarks), 14951
tips, reporting for Federal tax purposes, 12837
U.S. Government civilian employees stationed abroad, tax information, 8444
valuation of donated property, 5780
withholding tax, extend—
law, 12121
report, 10874
withholding taxes from your employee's wages, 12841
your Federal income tax for individuals, 2021
Incremental analysis of large deformations in mechanics' of solids with applications to axisymmetric shells of revolution, 11410
Incubators, biological, conversion from standard refrigerator, 3
Indecent publications, *see* Obscene matter.
Indemnity, double indemnity insurance under servicemen's group life insurance, amend U.S. Code, report, 15380
Independence, *see* Autonomy.
Independence County, Ark., community profile, 15568
Independent offices, *see* Government offices.
Index-digests:
decisions and opinions, Interior Department, 17393
index-digest supplement system, internal revenue bulletin, cumulative, 11289-291, 12831-832, 14413-414, 15865-867
procurement legal service pamphlets, cumulative Index-digest, 172
Wage Appeals Board, 1964-1968, decisions, 14882
Index numbers, *see* subjects, e.g. Wages.
Indexes:
agricultural production—
Africa and Near East, 10969
Western Hemisphere, excluding United States, 6861
agricultural research (periodical), 3617-18
AMC, publications and blank forms, 3735, 5106, 7644, 10539, 16581
armed services papers, 389
Atomic Energy Commission news releases, 5134, 13684

Indexes—Continued

biology and medicine, research and development in progress, 193
 broadcasting stations of world, amplitude modulation—
 country and city, 4291
 frequency, 4292
 Civil Defense Office publications, 6518
 code of Federal regulations, 12628
 commanders digests, 5479, 6824, 16907
 Commerce Department publications, 1968 supplement, 13810
 compiled service records of volunteer soldiers who served from 1784–1811, microcopy, pamphlet accompanying, 1163
 Comptroller General decisions, 5650
 concordance, U.S. patent classification to international patent classification, 11586
 congressional record—
 daily, 2688
 90th Cong., 1st sess., bound volume, 6554
 90th Cong., 2d sess., bound volumes, 12077, 12079
 copyright law revision, hearings, 484
 Czechoslovakia, subject index of legal regulations published, 1968, list, 15900
 Defense Department, specifications and standards, 2971, 14096–97
 Defense Supply Agency—
 Administrative Support Center publications, forms, etc., 6826
 publications & forms, 2756
 diabetes literature, 2766, 13170
 digest of public bills and resolutions, 2768
 Employees' Compensation Appeals Board decisions, index digest, 5561
 endocrinology index, 2797
 epilepsy abstracts, 1947–67, list, 16254
 Federal manual for supply cataloging, alphabetic index, 4123
 Federal register, 2871
 Federal specifications and standards, 2969, 8260
 Federal supply classification—
 alphabetic index, supplements, 2880
 numeric index, 2879
 fire danger, selected coastal Alaska stations, summary and analysis, 12720
 fishery publication index, 13818
 flood damage prevention, bibliography, 16497
 food, retail prices, 1964–68, indexes and average prices, 12974
 frequency modulation, by country, city, frequency, 4293
 Government publications, monthly catalog, decennial cumulative index, 1951–60, 6168
 highway safety literature, 16240
 Immigration and Naturalization Service, administrative decisions, 14398
 index medicus, 3165, 7349
 institutions of higher education, by State and congressional district, 15633
 Internal revenue bulletin, index-digest quarterly system, 2992–93
 Ku Klux Klan, organizations, investigation, hearings, 424
 maps and indicia relating to Vietnam and Asian Continent, print as House document, report, 10752
 Maritime Administration, Maritime Subsidy Board, National Shipping Authority, current regulations, 10041
 medical and health related sciences thesaurus S697
 medical and veterinary zoology, 13, 1498, 3626, 7572–73, 10462, 13543–544
 military periodicals, Air University Library, 2577
 Le Monde, 2970
 NASA management issuances, 8588
 National Institutes of Health library translations, 1967 supplement, 1196

Indexes—Continued

national supplier change index, Federal supply catalog, 2876
 nuclear science abstracts, 3210
 cumulative report number, with public availability citations, 6477, 11970
 outdoor recreation literature, 6155
 output per man-hour motor vehicles and equipment industry, 5900
 passenger lists of vessels arriving at Boston, 1848–91, pamphlet to accompany microcopy, 14659
 patents, 1968—
 list of patentees, 13314
 subjects of inventions, 16322
 pesticides documentation bulletin (periodical), 3250
 population crisis, hearings, 1739
 President's papers—
 Polk, James K., 12990
 series, 12990
 production, 1963 census of manufactures, change sheet, 220
 public health engineering abstracts, 2425
 REA publications—
 Rural Electrification Program, 7444
 Rural Telephone Program, 6219
 registered fungicides and nematocides, their uses in U.S., 16528
 research and technology, program digest, flash index, NASA, 10164
 research in education (periodical)—12438
 report resume, 5551
 Russian accessions, Library of Congress, 3136
 safety and health laws and codes, 12961
 scientific and technical aerospace reports, 3414
 standard instrument approach procedures, 13640
 surface water records to Sept. 30, 1967—
 lower Mississippi River basin, 7048
 St. Lawrence River basin, 737
 surface water stations, Texas, 12776
 thermal pollution, 1968, hearings, 1744
 trademarks, 13315
 U.S. Government research & development reports, 3537
 quarterly cumulative, 3538
 United States code, 6556
 war in Vietnam, report, 15044
 water data, catalog of information, surface water stations, 12777
 water research journals, 1967 permuted title index, 2004
 Indexing procedures for 15 virus diseases of citrus trees, 28
 India:
 accessions list—
 American Libraries Book Procurement Center, New Delhi cumulative list of serials, annual supplement, 16033
 Library of Congress American Libraries Book Procurement Center, New Delhi, 2975
 agricultural commodities, agreement, 7522, 11727, 13484
 Ambassador, nomination of Kenneth B. Keating, hearing, 8065
 annotated climatological bibliography, 13620
 crisis fleeing, military medicine, World War II, original reports, 15061
 economic trends and their implications for United States, 2025, 8480
 foreign trade regulations, 10654
 Pakistan boundary, Rann of Kutch sector, study, 4964
 relief supplies and packages, agreement, 7499
 U.S. foreign aid program, report of special study mission, 1699
 west coast, sailing directions, change, 16300

- Indian Affairs Bureau:
 Acting Commissioner, briefing session, hearings, 12228
 adult vocational training, approved courses, 14399
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 Commissioner, nomination of Louis R. Bruce, hearing, 14943
 field and central offices, directory, 2772
 press releases, 3296
 progress report, 8407
- Indian Arts and Crafts Board, bibliography series, 8411-12
- Indian Claims Commission:
 annual report, 7079
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 Commissioner, nomination of—
 Blue, Brantley, hearing, 9472
 Pierce, Margaret H., hearing, 1740
- Indian Health Division, annual discharge summary, 14787
- Indian Health Service, family planning program, computerized projected analysis, 10297
- Indian hospitals, funds for community hospitals for Indians and non-Indians public health laws, compilation, 493
- Indian lands:
 Alaska—
 grant certain lands to natives, hearings, 4083, 9468, 15321
 native land claims, settle, hearings, 4083, 9468, 15321, 16887
 disposal of rights in Indian tribal lands without tribal consent, proposal, 5362
 Interior Department decisions, 2986
 leases, longer term, for lands located outside Indian reservations in New Mexico, report, 14000
 loans for acquisition of lands by Indian tribes and tribal corporations, report, 15372
 long term leasing act of 1955, amend, report, 14001
 valuation, compensate Indians of California—
 law, 15212
 reports, 10749, 14004
- Indian Ocean:
 area, atlas of TIROS VII monthly maps of emitted radiation in 8-12 micron atmospheric window, 10106
 ecology of Aldabra Atoll, 1380
 explorations of survey ship, USC & GS Pioneer, bathymetry, geomagnetic and gravity data, 15151
 Kinorhyncha, Condyloderes and Sphenoderes, new Cyclorehagid genera, 13426
 lights and fog signals, list, 1245, 7373, 16302
 monthly charts of mean, minimum and maximum sea surface temperature, 2340
 northeastern, earthquakes, tsunamis, and volcanoes, 10216
 radio navigational aids, changes, 2337, 10237
 recent Ostracodes of family Pontocyprididae, 16404
 sigma-t surfaces, analysis, 13217
 tide tables, 13799
 western—
 deep-sea Cerviniidae (Copepoda Harpacticoida), 17376
 plants collected on islands during cruise of M.F.R.V. Manihine, 17371
- Indian Opportunity, National Council on, see National Council on Indian Opportunity.
- Indian reservations:
 EDA planning, Indian reservation development (remarks), 16943
 selected Indian reservation program, 14119
- Indian reservations—Continued
 water supply of Indian reservations (series), 8382
 see also names of reservations.
- Indiana:
 Agricultural Stabilization and Conservation Service—
 annual report, 11824
 activity summary, 8956
 by Congressional districts, 8957, 11825
 census of business, 1967 retail trade, area statistics, 13737
 climatological data, 2662
 dealers in trout and pondfishes, list, 10390
 electric rate book, 643, 12620
 Federal outlays, report of Federal Government's impact by State and county, 9547, 9597
 Illinois-Indiana air pollution control compact, consent of Congress, hearings, 8089
 pollution—
 interstate waters, 11146
 Lake Michigan and its tributary basin, conference proceedings, 14242
 precipitation data, hourly, 2962
 sawmills in 1966 receive 232 million board feet of saw logs, 4314
 southern, topography and soil relations for white and black oak, 4325
 timber volume, 11172
 water pollution, Lake Erie and its tributaries, etc., conference, proceedings, 5656, 9836
 water resources development by Army Corps of Engineers, 11006
- Indianapolis, Ind.:
 area wage survey, 10019
 Metropolitan Intrastate Air Quality Control Region, report for consultation, 10333
 programmed tutorial reading project, elementary program in compensatory education, 6872
- Indians:
 affairs, 1968, progress report, 8407
 American—
 calendar, 5753
 economic development, 1930-1967, bibliography, 8406
 education, literature survey, 8082
 industrialize to combat poverty, 8559
 national policy resolution, promote improved conditions, report, 439
 rural Indian Americans in poverty, 15617
 appeals, Interior Department decisions, 2988
 Arizona Superintendency, records, microcopy, pamphlet to accompany, 1167
 California, land value, compensate—
 law, 15212
 reports, 10749, 14004
 canyon country, John Wesley Powell's anthropological field work, 11248
 children, education, etc., study, authorization—
 hearings, 4093
 report, 5416
 civil rights, model code to govern administration of justice, etc., establish, report, 12262
 code of Federal regulations, 9805
 constitutional rights, amendments, report, 12262
 demographic and socio-cultural characteristics, off-reservation service population, Self Service Unit, Ariz., 13337
 dental services, annual reports, 2413, 16399
 dentist in Indian health, 11609
 education of children, extend programs elementary and secondary education act amendments of 1969—
 hearings, 5372, 6709 15473, 16891
 reports, 6695, 7891

- Indians—Continued
education policy, organization, administration, and new legislation, hearings, 10915
folktales, bibliography, 8412
Fort Philip Kearney (or Fetterman) massacre, investigation, records, microcopy, pamphlet to accompany, 1169
future of Indians (remarks), 15852
health, miscellaneous laws, compilation, 5458
health program of Public Health Service, 8808
progress, etc., 13349
report to the first Americans, 13377
health trends and services, 10311
illness among Indians and Alaska natives, 7420
Indian circle programs, 16946
Indian leader (Haskell Institute periodical), 2976
Indian School journal (periodical), 2977
loans for acquisition of lands, provide, report, 15372
mineral industry, minerals yearbook chapter, 2144
New Mexico tribes, general information, 789
northwest coast, Indian art, bibliography, 8411
Public Health Service Indian and Alaska native hospitals, contract hospitals, field health, annual statistical review, 14780
publications, price list, 2407
relationship with Federal government (address), 15847
sanitation facilities, PHS to construct, etc., public health laws, compilation, 493
suicide among American Indians, 16372
vital statistics, 1967—
Arizona, 8798
Colorado, 10312
Iowa, 10313
New Mexico, 10314
North Carolina, 8811
North Dakota, 10315
Oklahoma, 10316
South Dakota, 10317
Utah, 10318
Washington State, 8824
see also names of reservations or tribes.
Indicators:
military standard, 12367
organic, reagent grade, military standards, 10956
Indium arsenides, microwave backward diodes, fabrication and characteristics, 16164
Indium sulfate, thermodynamic data, 11393
Individuality, naval training equipment and individual differences, effects of subject matter variables, study, supplementary report, 1256
Indocin, *see* Indomethacin.
Indolylalkylamines as radioprotectants, 3713
Indomethacin, competitive problems in drug industry, hearings, 1745
Indonesia:
accessions list, Library of Congress American Libraries Book Procurement Center, Djakarta—
cumulative list of serials, 12989
monthly, 2978
agricultural commodities, agreement, 1451, 2491, 8895, 10418, 16473
alien amateur radio operators, authorization to operate agreement, 8894
background notes, 7480
climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
graphs, 1842
maps, 4221
economic trends and their implications for United States, 845, 8459
Indonesia—Continued
labor law and practice, 4469
mineral industry, minerals yearbook chapter, 17183
nautical charts and publications, catalog, 10229
pilot training aircraft, agreement with Indonesia, 17408
surplus property, agreement, 7500
Indonesian language, newspaper reader, 1443
Inducers, tandem-bladed, overall performance in water, 8626
Induction (military service), *see* Conscription.
Induction heating, *see* Heating.
Inductors:
for protecting power transistors against current surges in inverter bridge circuits, analysis and design, 4725
inductive elements, superconductive dust cores, 7295
Inductoslag melting of titanium, 11383
Indus Plains, West Pakistan, tube wells, corrosion and energization, 7058, 14343
Industrial arbitration:
national emergency disputes, labor management relations (Taft-Hartley) act, 1947-68, list, 17155
securing labor-management peace through mediation, 9780
see also Collective bargaining.
Industrial arts, education, planning and designing functional facilities, 584
Industrial capacity, manufacturing capacity, comparison of two sources of information, 1890
Industrial classification, *see* Industry.
Industrial College of Armed Forces:
correspondence courses—
national security management, information booklet, 556
program of studies, 12873
National Security Seminars—
presentation outlines and reading lists, 831, 12874
prospectus, 10006
perspectives in defense management (periodical), 3249
Industrial defense, *see* Civilian defense.
Industrial designers, employment outlook, 4491
Industrial engineers:
civilian career opportunities, Navy Department, 2360
employment outlook, 4505
Industrial equipment, *see* Production equipment.
Industrial fishery products, situation and outlook, 2979
Industrial health, *see* Health.
Industrial housekeeping, good housekeeping for successful safety program, 11446
Industrial hygiene, *see* Hygiene.
Industrial Hygiene Week, National, *see* National Industrial Hygiene Week.
Industrial instruments, import trends, 1958-67, analysis, 13731
Industrial machinery, *see* Machinery.
Industrial management:
Apollo program management, staff study, 15327
civil defense, preparation for wartime and peacetime disasters in industry, 1636
industrial mobilization production planning manual, 6837
role of packaging in solid waste management, 8814
solid waste management, composting, European activity and American potential, 6207
Industrial materials, *see* Materials.
Industrial plants, *see* Plants (industrial).
Industrial property, *see* Patents—Public property
Industrial Property, International Bureau for Protection of, *see* International Bureau for Protection of Industrial Property.

Industrial relations:
 compliance, enforcement and reporting in
 1967 under labor management reporting
 and disclosure act, 2100
 court decisions relating to national labor
 relations act, 14697
 employment of green card aliens during
 labor disputes, hearings, 13926
 Federal employee unit arbitration, 8533
 human relations in small business, 16402
 jurisdictional guide, 8700
 labor-management relations act of 1947—
 amend—
 hearings, 9342, 9481
 reports, 10714, 15283, 16817
 contribution to trust funds, report,
 12261
 national emergency disputes, Labor man-
 agement relations (Taft-Hartley) act,
 1947-68, list, 17155
 national labor relations act, amend, hear-
 ings, 12215, 13926
 National Labor Relations Board provides
 services for working men & women,
 employers, & unions, 2311, 8703
 operating practices, work rules, and em-
 ployee compensation programs in rail-
 road industry, joint labor-management
 improvement program, 4272
 postal labor relations and employee
 morale, hearings, 12239
 publications, list, 3191
 representation law, responsive approach
 to exercise of employee rights (address),
 8702
 securing labor management peace through
 mediation, 9780
 unfair labor practices—
 case developments, quarterly report,
 3358
 employment of aliens dwelling in a for-
 eign country during a labor dispute,
 amend law, hearings, 13926
see also Collective bargaining.

Industrial safety, *see* Safety of life.
 Industrial security, *see* National security.
 Industrial television, *see* Television.
 Industrial truck operators, fork lift truck
 operators, job grading standard, 3880
 Industrial waste, *see* Waste products.
 Industrialized building, comparative analysis
 of European experience, 12812
 Industrialized housing, 7835
 Industries, *see* Industry—*also* names of
 industries.

Industry:
 aerospace related technology for industry,
 conference proceedings, 13062
 aircraft and missiles, 1957-68 R & D,
 14716
 Alaskan industries, summary by standard
 industrial classification and corporate
 classification, 14200
 American Indians industrialize to combat
 poverty, 8559
 atom's expanding role (remarks), 11965
 Business, Industry & Education, Inc., cor-
 porations and educators form partner-
 ship in learning, 5534
 company industrial civil defense manual,
 guide to developing, 6515
 competitive enterprise (address), 10638
 current industrial reports, 224-238, 1620,
 2732-33, 3835-59, 5210-11, 6495-99,
 7738-39, 9124-52, 11999-12008, 13761-
 762
 defense industry bulletin (periodical),
 2753
 disasters, preparation for wartime and
 peacetime through industrial civil de-
 fense management, 1636
 economic and industrial affairs, Eastern
 Europe, translations, 3507

Industry—Continued
 government commitment to occupational
 training in industry, 2101
 Government-industry system safety con-
 ference, 4659
 groundfish, effects of imports on, report,
 11279
 helping through science and technology,
 State technical services, 6544
 industrial—
 and employment potential of United
 States-Mexico border, 1798
 development, financing through State
 and local governments, 565
 mobilization production planning
 manual, 6837
 outlook, 1614
 Industry and national defense (remarks),
 309
 Industry reports, 2656, 2696, 2703, 2706,
 3334, 3349
 Industry trend series, 5197, 6484, 7729-32,
 9095
 injury rates, 16012
 joint industry administered trust funds for
 product promotion, employer contribu-
 tions, permit, 16817
 marine-oriented industries, national pro-
 gram Marine Science, Engineering and
 Resources Commission panel reports,
 10285
 national industry, occupational matrix
 and other manpower data, projections,
 etc., 7174
 patterns of industrial growth (series),
 6485, 9077, 11975-976, 16611-642
 planning for rural industry, 7609
 private—
 and nutrition, hearings, 16895
 procurement of certain products from,
 by Atomic Energy Commission, GAO
 report, 720
 work force adjustments, their implica-
 tions for manpower policy, 878
 profiles, 15086
 Puerto Rico 1966 coverage enterprises in
 wage order industries established before
 1966, data pertinent to review of mini-
 mum wage rates, 13526
 research and development—
 final report, 1233
 preliminary report on scientists, funds,
 etc., 10210
 reservation industrial employment, social
 and economic effects on Indian em-
 ployees and their families, 9950
 safety in industry—
 environmental and chemical hazards
 series, 17145-146
 fundamentals of accident prevention,
 17143
 mechanical and physical hazards series,
 16007, 17142, 17144
 science in industry and production, USSR
 study, 12885
 scientific and technical personnel in indus-
 try, 5897
 seasonal industry determination for fresh
 fruit and vegetable industry, guidelines,
 17437
 special-industry machinery, trade and
 tariff information, summaries, 7541
 TVA area, development, 7547
 unemployment insurance tax rates by
 industry, 5567, 12445
 U.S. and international standard industrial
 classifications, correlation, comparison
 with application for Census Bureau,
 12021
 useful market surveys and industry reports
 issued by United Nations Economic
 Commission for Africa, supplement,
 15170

Industry—Continued

- USSR development, translations—
 - automotive and tractor industry, 3554
 - chemical industry and machinery, 3555
 - construction, construction machinery, and building materials, 3556
 - electric power, fuels and related equipment, 3557
 - electronics and precision equipment, 3558
 - metallurgy and minerals, 3559
 - metalworking equipment, 3560
- USSR, economy and industry, translations—
 - general information, 3553
 - reports on economy, finance, and planning at Republic Supreme Soviet sessions, 5819
- Virgin Islands, industries, minimum wage rates, data pertinent to review, 13524
- wage and union scale studies 1960-68, directory, 7185
- wage survey—
 - basic iron and steel, 2111
 - communications, 7176
 - electric and gas utilities, 10017
 - footwear, 16024
 - hoselery, 4591
 - iron and steel foundries, 14457
 - leather tanning and finishing, 11336
 - men's and boys' suits and coats, 4594
 - pulp, paper, and paperboard mills, 5856
- workers and employees in different branches, morbidity with temporary disability, assessment and comparison of data, USSR study, 11325
- see also* names of industries.
- Industry manpower surveys, 6904, 17419
- Inert gases, *see* Noble gases.
- Inertia, rotatory effects in vibrating beams, approximate theory, 11407
- Inertial guidance, accurate strapdown direction cosine algorithm, 16160
- Inertial systems, *see* Inertial guidance.
- Infantry :
 - brigades, Army field manual, 7653
 - soldier's BCT handbook, 10545
- Infants :
 - education research project, Washington, D.C., preschool program in compensatory education, 6892
 - evaporated milk a good formula for babies, 5233-35
 - food for your baby's first year, 5237
 - hemolytic disease of fetus and newborn due to RH isoimmunization, 13777
 - idiopathic respiratory distress syndrome, proceedings of interdisciplinary conferences, 17277
 - mortality in England and Wales, 1351
 - see also* Pregnancy.
- Infections, urinary tract, prevent in your hospital, 16366
- Infectious diseases, *see* Contagion and contagious diseases.
- Inflammable materials :
 - dangers of flammable clothing, 13336
 - flame spread tests on foam plastic materials, 601
 - flammability of skin and hair in oxygen-enriched atmospheres, 10525
- Inflation, and performance of 3 parachute configurations from supersonic flight tests in low-density environment, 11487
- Inflation (finance) :
 - control (remarks), 8919, 10439
 - controlling inflationary psychology (remarks), 1663
 - Government program to control inflation (remarks), 17426
 - greatest scourge of our society today (address), 12065
 - gross national product and unemployment (remarks), 17423

Inflation (finance)—Continued

- our problem of inflation, 11136
- problem (addresses), 6538, 9942
- rate of increase in prices will decline during 1970 (address), 16701
- reminiscences and reflections (remarks), 17002
- rising construction costs and anti-inflation policies, report on Western Europe, 14464
- state of the economy, present and future (remarks), 15178
- see also* Money.
- Influenza :
 - A2 (Hong Kong) 1/68 virus and its implication in 1968 influenza outbreaks in Soviet Union, 12940
 - anti-influenza drug amantidine, evaluation of prophylactic activity, USSR study, 15950
 - National Communicable Disease Center fact sheet, 14793
- Information, determining information needs of scientific institutes, USSR study, 2050
- see also* Public information.
- Information bulletins, *see* Names of departments, etc., issuing bulletins.
- Information centers, *see* Information services.
- Information leaflets, Smithsonian Institution, 13413-44
- Information networks and communication, USSR, 12910
- Information Office, Agriculture Dept. appropriations, 1970—
 - hearings, 7945
 - reports, 9311, 12254
- congressional list (series), 11276
- list series, 790, 12823
- publications available for distribution by Members of Congress, list, 11276
- Information Science and Libraries, National Commission, *see* National Commission on Libraries and Information Science.
- Information services :
 - Army technical information holdings and services, directory, 9060
 - educational information centers, directory, 14131
- Federal information processing standards publications—
 - Federal general data standards, representations and codes—
 - calendar date identification, 6042
 - counties of States of United States, 6044
 - metropolitan statistical areas, 11514
 - States of United States, 6043
 - FIPS pubs, 2283, 6039-44, 11514
 - hardware standard interchange codes and media, information interchange—
 - code, 6039
 - implementation of code, 7320
 - perforated tape code, 6040
 - recorded magnetic tape, 6041
 - register, general information, 2283
- HEW visitors information center, 12804
- public availability of information, FAA handbook, 9745
- science, available from Atomic Energy Commission, 7703
- scientific and technical information dissemination, national and international developments, 3415
- selected information sources for urban specialists, 17080
- State and territorial travel information offices, list, 14957
- statistical information system for community mental health centers, 10320
- VA programs for sharing medical facilities and exchange of medical information, annual reports, 427

- Information storage and retrieval systems:
 Army systems, narrative description, pamphlet, change, 7659
 branching systems theory, USSR study, 12950
 comparison of sequential decoding metrics by computer simulation, 4751
 computer-based—
 biomedical information system, logic foundations and techniques, 5133
 vocational guidance systems, symposium summary, 16953
 documentary information retrieval, USSR study, 11326
 establish in Congress—
 hearing, 9350
 report, 9305
 establish in National Science Foundation for research data, hearings, 12214
 FAMULUS, computer-based system for augmenting personal documentation efforts, 17036
 free field input data formatting scheme, 13248
 free field rapid access format for BT profiles, 13261
 human intellect augmentation techniques, 4682
 hydrographic survey data reduction by automatic plotter, 13216
 information networks and commutation, USSR study, 12910
 information robots and manipulators, USSR study, 15935
 MARC pilot project, final report, 5921
 medical diagnostic equipment card file, USSR study, 4440
 NASA scientific and technical information system, and how to use it, 16147
 National Data Buoy Systems, first scientific advisory meeting, proceedings, 16606
 New Florencia, case study for 1970 censuses of population and housing—
 data collection operations, 7750
 data processing, key punching, 7751
 oceanographic data, guide to formatting, 13230
 processing information system user inquiries and compiling an IRS frequency lexicon, USSR study, 12893
 remote information retrieval facility, 8595
 sociological information, processing with use of electronic computers, USSR study, 2072
 spacecraft analog-to-digital conversion system employing MOSFETS, 11457
 urban & regional information systems for planning in metropolitan areas, 5749
- Information theory:
 character information coded in 6, 7, and 8 bits, evolving conventions and standards, 10179
 information-man-machine problems, USSR study, 8499
 new techniques in scientific information systems, USSR study, 8516
 tactile information channel characteristics, 17198
- Informed consent, 5659
- Infrared Acquisition and Tracking System, infrared systems for detection, direction finding and automatic tracking of moving targets, USSR study, 2061
- Infrared lamps, use for brooding pigs, 6382
- Infrared photography, surface temperature mapping with infrared photographic pyrometry for turbine cooling investigations, 10121
- Infrared rays:
 high resolution infrared data, estimating maximum wind speed of tropical storms, 9727
 horizon profiles for winter conditions from Project Scanner, 2231
- Infrared rays—Continued
 horizon radiance profiles, technique to infer atmospheric temperature structure, 6015
 improvement of clear column radiance determination with supplementary 3.8u window channel, 14163
 infrared heating simulation of Mach 4.63 flight on X-15 horizontal stabilizer, evaluation 16165
 infrared radiation—
 absorption by ice, cryodeposits, 8641, 13072
 attenuation and back-scattering, by ice fog and water fog, 11932
 infrared scanning the Arctic pack ice, 10219
 mercury cadmium telluride as 1- to 20-micro-meter wavelength infrared detector for space application, 1121
 radiation measurements in infrared, preliminary study of detection of geomorphological features over northeast Africa by satellite radiation, 2219
 remote detection of earth resources in sub-arid lands, 2218
see also Infrared lamps.
- Infrared spectroscopy, *see* Spectroscopy.
- Infrared spectrum, *see* Spectra.
- Ingebo, Paul A. effect of heavy late-fall precipitation on runoff from chaparral watershed, 9852
- Ingestion, hot gas recirculation and ingestion for jet VTOL aircraft generalized experimental investigation, 1003
- Ingots, *see* Steel.
- Inhalation, anesthetics, theories of mechanism of action, 13627
- Inheritance and transfer tax
 career opportunities, estate tax attorney, 4408
 double taxation, convention with Netherlands, text, etc., 15354
 Federal tax guide for survivors, executors, and administrators, 8429
 internal revenue bulletin, cumulative, index-digest supplement system 11290, 15866
 IRS looseleaf regulations system, 3088A, 11294
- Inhibitors:
 cerium-based, effect on siloxane degradation at high temperature, hypothesis, 10268
 growth, species interactions in native plants of northern Arizona, 1921
 phosphate coatings and inhibitors, preventive compounds, military standard, 12368
- Initiators (explosives):
 electroexplosive devices, pretesting effects, study, 1022
- Injections:
 deep-well, of waste brine from inland desalting plants, feasibility, 8421
 injection of inviscid separated jet at oblique angle to moving stream 16194
 method of external injection of electrons into closed toroidal systems, 15072
 suction and injection in equilibrium dissociating air, stagnation-point boundary layer, corrected copy, 2217
- Injectors:
 chugging to liquid-propellant rocket engines having multicement injectors, application of double-dead-time model describing, 11491
 helium penetration and spreading in Mach 2 airstream using delta wing injector, study, 11494
 injection element radial distribution and chamber geometry, effect of an acoustic-mode instability in hydrogen-oxygen rocket, 14623
 injectors and ablative thrust chambers for flex-propane rocket engines with 1.2 inch throat diameter, design, 11496

Injuries:

- acute conditions, incidence and associated disability, statistics, 11643
- coal mines—
 - analysis of safety factors, etc., 11380
 - monthly report, 2665
- electric shock injury prevention, demonstration guide, 17332
- fatal and injury accident rates, 1967, on Federal-aid and other highway systems, 6216
- fatal, resulting from extreme water impact, 10578
- Federal work injury facts (series), 15645
- how to help injured employee, supervisors handbook, 7083
- impact, to pregnant female and fetus in lap belt restraint, 10580
- mineral industries—
 - injury experience and worktime, 5935
 - minerals yearbook chapters, 941, 17175
 - work injury experience 17176
- pathology of trauma attributed to restraint systems in crash impacts, 16635
- preventing injury from falls and falling objects, occupational safety aid, 16010
- rates, by industry, 16012
- spinal cord clinical conference, proceedings, 6335
- types, incidence and associated disability, July 1965-June 1967, U.S., 16376
- using injury statistics, 16008
- work injuries, civilian Federal employees during 1968, number, duration and direct cost factors, 15645
- work injuries under District of Columbia workmen's compensation act, 4193
- see also Accidents—Employers' liability and workmen's compensation.
- Injury Control Research Laboratory research report ICRRL-RR series, 13350
- Inland waterways:
 - user act of 1968, proposed legislation, analysis, 1718
 - waterborne commerce—
 - 1966 calendar year, 1823, 8182-83
 - 1967 calendar year, 8184, 12556
- Inlets, see Air inlets (aircraft).
- Inlets (shore):
 - outlet works inlets, characteristic pressure distribution, 15666
- Inman, Guy M., research and development for safeguards, 3814
- Inman, Rex L., objective detection and correction of errors in radiosonde data, 612
- Inner tubes, Federal item identification guides for supply cataloging, supplements, 2842
- Innis, Robert C., flight tests under IFR with STOL transport aircraft, 1143
- Inorganic compounds:
 - grafting of organic polymers onto inorganic substances, 191
 - inorganic salts and compounds, analyzed reagent and reagent grade, 14105
- Inorganic polymers, USSR study, 12955
- Input admittance and reflection coefficient of circular aperture in ground plane covered by homogeneous dielectric or plasma slab, 1008
- Input-output analysis, see Linear programming.
- Insect pests, see Insects.
- Insect traps:
 - automatic device for dividing and packaging light trap insect catches according to time intervals, 5
 - virgin female traps for fall armyworm, use to detect males and to determine seasonal distributions, 15005
- Insect vectors, see Vectors (biological).
- Insecticides:
 - act, administration deficiencies hearings, 13930
 - attractants for Japanese beetle, 5067

Insecticides—Continued

- Bidrin systemic insecticide, implantation into trunks of slash pine for control of insects, 9864
- control of pine seedworm, field screening, 7013
- insect control on crops, livestock, etc., suggested guide addendum, 10477, 11862
- narcissus bulb fly damage prevention, 5046
- organophosphorus, methods of analyzing trichlorimethaphos and carbophos in aerosol containers and in air, USSR study, 15954
- tolerance of spruce budworm to malathion, 4321
- see also Pesticides—also names of insecticides.
- Insects:
 - automatic device for dividing and packaging light trap insect catches according to time intervals, 5
 - box ejector for insect distribution from helicopter, 11791
 - cabbage in home gardens, 5035
 - cactus-feeding insects and mites, 6070
 - control—
 - home vegetable garden, 1505
 - lawn, 5036
 - potato, 3636
 - slash pine cones with trunk implantations of Bidrin systemic insecticide, 1st-year results, 9864
 - cooperative economic insect report, 2704
 - cotton—
 - insect parasites, rearing in laboratory, 13605
 - rearing in laboratory, 13694
 - developing resistant plants, 15006
 - environmental conditions relating to harmful insects in Mainland southeast Asia, 13657
 - evaluation of malathion, as protectant against insects in grain sorghum, in small bins, 10486
 - forest—
 - conditions in United States, 9844
 - outbreaks in Oregon and Washington State, 671, 17014
 - pest conditions in Pacific Northwest, 8278
 - population dynamics, 15772
 - major pests in North Dakota shelterbelts, distribution and abundance by climate and host age, 14289
 - quarantine notices under Plant quarantine act, P.P.C. series, 3234
 - saving forests and related wildlife resources from insects and diseases, 13539
 - seed and cone insect survey on seed production areas, Clark, Mark Twain, and Shawnee National Forests, 7005
 - worms and insects harmful to man, animals, and plants, publications, price list, 8789
- Inserts, throat inserts for ablative rocket engines, development, 13067
- Insignia, Armed Forces (poster), 10538
- In-situ formation of regenerative cellulose acetate membranes on porous tubular supports, 17096
- Inspection (industrial):
 - dairy inspection and grading services, 11872
 - how to inspect chart—
 - HTIC LS series, 5892-93
 - radial saw, 5892
 - table saw, 5893
 - safety inspection for detection, analysis, correction occupational safety aid, 12962
 - safety road checks, motor carriers of property, 4657, 11397
 - visual inspection guide for rubber sheet material, military standard, 5499
 - see also names of articles, etc., inspected.

- Inspection (military), *see* Military supplies.
- Inspector General, Agriculture Dept.:
 - appropriations, 1970—
 - hearings, 7945
 - reports, 9311, 12254
- Inspectors:
 - air carrier operations, handbook, 15690
 - poultry, handbook, 511
 - see also* types of inspectors.
- Inspectors (manufacturing):
 - employment outlook, 4506
- Installation of high-reduction-ratio transmission in UH-1 helicopter, 11950
- Installations (military):
 - Air Force, structures, definitive designs, 10514
 - Army continental U.S., list, 6435
 - civilians employed, improve management of detailing, GAO report, 714
 - construction authorization, 1970—
 - hearings, 12206, 15301
 - reports, 12194, 15235
 - defense disposal manual, changes, 1768, 5484, 10944, 15494
 - design of structures to resist effects of atomic weapons, multistory frame buildings, 11947
 - emergency construction, architectural design, Army technical manual, 5124
 - facility design and construction, Air Force design manual criteria and standards for Air Force construction, 5073
 - land operational facilities, Navy design manual, change, 13208
 - military building program in Thailand, problems in administration, GAO report, 11222
 - military construction program, unused engineering and design effort, GAO report, 17067
 - military fields, instrument approach procedure charts, 3119
 - naval shore facilities, definitive designs, changes, 1236, 16289-290
 - roads, walks, storage areas, geometric design, etc., Army technical manual, 5125
 - spiral generation of building shells for military construction, 6905
 - see also* Roads and highways.
- Installations (naval), *see* Installations (military).
- Installation credit:
 - automobile installment credit developments (periodical), 2616
 - commercial banks, holdings, monthly report, 2699
 - consumer credit at consumer finance companies, 2698
 - consumer credit industry hearings, 482-483
 - consumer credit, monthly release, 2697
 - consumer credit regulations—
 - amendment to Federal Reserve regulation Z, 14233
 - hearings, 6707
 - interpretations, 6978, 14228
 - installment and deferred-payment sales, tax information, 12834
 - uniform consumer credit code, proposal, hearings, 6707
- Institute for Applied Technology:
 - annual report, 2295
 - technical highlights, 1968, fiscal year, 2292
- Institute for Basic Standards:
 - annual report, 2295
 - radio-frequency measurements, 13159
 - technical highlights, 1968, fiscal year, 2293
- Institute for History of Natural Science and Technology, section on history of aviation and cosmonautics, 9th scientific conference of graduate students and junior scientific associates, transactions, 11505
- Institute for Materials Research:
 - annual report, 2295
 - technical highlights, 1968, fiscal year, 2294
- Institute for Telecommunication Sciences:
 - ESSA technical report ERL-ITS series, 4216, 6915-16, 9722-24, 11025-27, 12567-570, 14165-167, 15674-675
 - ionospheric predictions (periodical), 3010
- Institute of American Indian Arts, general information, 2003
- Institute of History of Natural Science and Technology 10th scientific conference, transactions, 14651
- Institute of Physics, Azerbaydzhan SSR, Academy of Sciences, decorated, 11319
- Institutes for Environmental Research, scientific and technical publications, list, 14173
- Institutions:
 - eligible, higher education act of 1965, as amended, guaranteed student loan program, list, 12429
 - higher education, financial statistics, 4170, 12433
 - higher educational personnel training programs, 1969-70 institutes and short-term training programs, 5541
 - institutional meat purchase specifications, approved by USDA, cured, dried, and smoked beef products, 15480
 - States, funds for research, 6818
 - see also* Mental institutions.
- Instruction, training methodology, instructional methods and techniques, annotated bibliography, 8820
- see also* Education—Programmed instruction.
- Instructional materials, *see* Teaching.
- Instrument approach procedure charts, *see* Maps and charts.
- Instrument flight rules:
 - en route air traffic survey, peak day, 9737
 - off-airway routes (non part 95), 11921
- Instrument flying:
 - comparison of effects of peripheral vision cues on pilot performance during instrument flight in dissimilar aircraft simulators, 10579
 - effects of reduced airspeed for landing approach of large jet transport equipped with powered lift, 1059
 - flight tests under IFR with STOL transport aircraft, 1143
 - handbook, 5594
 - rules, aviation air traffic patterns, 15679
 - tasks, pilot response to peripheral vision cues, 6481
- Instrument landings, *see* Landings (aircraft).
- Instrument makers, employment outlook, 4519
- Instrument repairmen, *see* Instrumentmen.
- Instrumentation:
 - air-pollution-monitoring instrumentation, survey, 8608
 - boundary effects of uniform size roughness elements in two-dimensional flow in open channels, 4214
 - instrumentation papers, 1535-36
 - journal of research, National Bureau of Standards, 3026
 - requirements and operating problems, simulation studies of some supersonic transport, 13088
 - slush hydrogen fluid characterization and instrumentation, 6051
 - TAMIS, system and subsystem components, 80
 - techniques of water-resources investigations, 753
 - technology, selected advances, 8850
- Instrumentmen, repairmen, employment outlook, 4565
- Instruments:
 - aircraft instrument repair facilities, evaluation of radium contamination, 14790
 - combination and miscellaneous, industrial plant equipment handbook, 527

Instruments—Continued

- device for measuring soil frost, 17028
- electrical indicating shipments, 1966-67, analysis, 10587
- fire control instruments, lubrication, military standard, 551
- improvement of existing instruments and creation of new ones for seismic stations, USSR study, 15948
- instruments and laboratory equipment, Federal item identification guides for supply cataloging supplements, 2846
- instruments and ordnance manufacturing, industry trend, 9095
- instruments for studying cosmic radiation at altitudes of 200-400 km, USSR study, 17132
- selected and related products, current industrial reports, 9143-44
- see also* names and types of instruments.

Insulation:

- low-density foam for insulating liquid-hydrogen tanks, 7284
- sleeving, electrical, Federal item identification guide, 6834
- thermal, Federal item identification guide, 4128
- thermal, from wood for buildings effects of moisture and its control, 684
- wire and cable, current industrial reports, 1620
- workers, employment outlook, 4535
- see also* Heat shields.

Insulators, electrical, Federal item identification guide, 6835

Insulin:

- insulin-inhibitory factor in human blood, role in charcoal radioimmunoassay, 9008
- plasma, coated charcoal radioimmunoassay for, 6420

Insurance:

- Canal Zone, annual business report, 11981
- drug insurance design, background papers, 8389
- Illinois FAIR plan, Chicago, Ill., operation, hearings, 9337
- industry—
 - investigation, hearings, 4089, 6795
 - working with and employing the handicapped, panel presentation, 2400
- occupations, employment outlook, 4581
- standards for property, rehabilitation grants and loans to meet insurability requirements, 15836
- urban property protection and reinsurance program, operation, hearings, 9337
- Veterans Administration, field offices, savings available through consolidation, GAO report, 15789
- see also* Mortgage insurance—*also* types of insurance.

Insured banks, *see* Banks and banking.

Integral equations, *see* Equations.

Integrals:

- resonance, of rhenium for wide range of sample sizes, 1142
- tables, for spherical harmonic expansion of hydromagnetic equations, 5577

Integration, *see* Race problems.

Integration (mathematics):

- analysis of numerical integration techniques for realtime digital flight simulation, 1117

Integrators, use of LIF detectors in neutron flux integrator, feasibility study, 13693

Intellect:

- human, augmentation techniques, 4682
- intelligence through the eyes of a cybernetician, USSR study, 8521
- speech intelligibility, effects of spectrum sampling on, 13667

Intellectual Property Organization, World, *see* World Intellectual Property Organization.

Intellectuals:

- intellectual ferment and dissent aspects in—
 - Czechoslovakia, 8078
 - Soviet Union, 1720, 1741
- print as Senate document, report, 447
- Intelligence, *see* Intellect.
- Intelligence (military science), *see* Military Intelligence.
- Intelligence and Research Bureau, State Dept., research in action, 1437
- Intelligence tests, *see* Mental tests.
- Intelligibility of helium-speech as function of speech-to-noise ratio, 7200
- Intensive culture of Douglas fir, 14267
- Interagency Committee on Manpower Research, manpower research, inventories, 581, 16959
- Inter-Agency Committee on Mexican American Affairs:
 - activities 1967-68, report, 2000
 - establish, hearings, 10902
 - see also* Cabinet Committee on Opportunity for Spanish-speaking People.
- Interagency Technical Assistance Study Committee, handbook on federally supported state technical assistance for community development, report, 17081
- Interagency training programs, *see* Government officials and employees.
- Inter-American Center for Research and Documentation on Vocational Training: CINTERFOR, Inter-American seminar on manpower training and development, 12959
- Inter-American Development Association, appropriations, 1970, hearings, 15299
- Inter-American Development Bank:
 - establishing, agreement, amendment, 2504
 - progress (statement), 10441
- Inter-American republics, *see* American republics.
- Interconnection systems, *see* Electric power plants.
- Interdepartmental Committee for Atmospheric Sciences, report series, 4252
- Interest (psychology):
 - psychological dynamics of inner-city problems, seminar, 884
- Interest and usury:
 - compound interest (remarks), 651
 - District of Columbia, banks, savings and loan associations, and other regulated lenders, installment loans, charge or deduct interest in advance—
 - hearing, 12211
 - report, 12183
 - emergency student loan act of 1969—
 - hearing, 12311
 - reports, 15249, 16788
 - high interest rates, impact on economy, hearings, 8052
 - insured banks, paid on savings, maximum interest rates, regulation—
 - extend—
 - law, 16737
 - report, 15376
 - regulation, law, 341
 - interest expense, income tax deduction, 4411
 - interest rates, insured mortgages, correct obsolete references in laws, law, 342
 - maximum rate of interest on ship loans and mortgages, hearings, 1705
 - maximum rates of interest which may be charged by federally supervised banks, regulate, hearings, 15419
 - payment of interest on deposits, regulations, 4286, 12642-643
 - prime interest rates, increase, investigation, hearings, 12209
 - savings bonds, increase interest rate, report, 16776
 - State and local bond interest, tax reform hearings, summary of testimony, 15347
 - veterans home loans, authority to set interest rates on mortgages, extend, reports, 15268, 15284

Interest equalization tax act:
extend—

- hearing, 14025
- law, 15198
- reports, 12191, 12198, 15234, 15406
- statement, 14952
- summary, 464
- Treasury Department recommendations, summary, 465

Interest rates, *see* Interest and usury.

Interfaces:

- air/sea interface by artificial sea slicks, modification, 2356
- computer/display interface study, final report, 16583
- liquid/air interface, density gradients near, 14742
- logistics system, Contract Administration Services, DOD Contract Management Conference, 1781

Interference, *see* Radar interference.

Interference drag, *see* Drag (aerodynamics).

Interferometers:

- microwave, measurements and Langmuir probe, correlation using free-stream electron concentration in arc-heated wind tunnel, 17245
- radio-astronomy interferometer experiment, optical stimulation, 16156

Interferon:

- human leukocytic, production conditions for obtaining, USSR study, 12891
- interferons and interferonogens, USSR study, 15970

Intergovernmental relations:

- federalism and the academic community, brief survey, 7565
- intergovernmental personnel act of 1969, hearings, 8070
- intergovernmental problems in medicaid, ACIR hearing, 3615
- progress in intergovernmental personnel relations, report, 11258
- recent research, 1968, reference, 10444
- study, authorization, report, 4055
- toward a new fiscal federalism (remarks) 14953
- unshackling local government, survey of proposals by Advisory Commission on Intergovernmental Relations, print additional copies, report, 7918
- urban development, intergovernmental awards program, 1967 honor awards, 4388

Intergovernmental Relations, Advisory Commission on, *see* Advisory Commission on Intergovernmental Relations.

Intergovernmental Relations Office:

- expenses, appropriations, authorize—
- hearings, 15317, 15460
- report, 15408

Interim management control systems list, 10951

Interior and Insular Affairs Committee, House:

- accomplishments, 90th Congress, 403
- calendar, 3043
- committee prints, 403, 14040
- hearings, 3992, 5450-52, 7960, 9352-53, 10790, 12228-229, 15320-321
- investigations and studies—
- authorization, report, 5346
- expenses, report, 6670
- reports, 372, 7934, 10715, 10723-724, 10743, 10749, 12157, 12167-169, 12196, 15255-258, 15262-264, 15278, 16768, 16777, 16780-784

Interior and Insular Affairs Committee, Senate:

- calendar, 3061
- committee prints, 418, 4086, 6790, 10905-906
- hearings, 477, 479-481, 1740, 4083-85, 6791-93, 8075-77, 9468-73, 12302-305, 14039, 14041-46, 15461-463, 16887

Interior and Insular Affairs Committee, Senate—Continued

- investigations and studies, authorization, report, 5408
- reports, 439, 442, 4046, 6767-71, 6773, 9416, 9427-30, 9434, 10843, 10850, 10860-862, 10867, 10870, 10872, 12251, 12263-265, 13990-992, 13995-996, 13998, 14000-8, 15365-366, 15369, 15372, 15374-375, 16872-876

Interior decorators and designers, employment outlook, 4491

Interior Department:

- Acadia Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 12733
- America's department of natural resources, 15848

appointment papers, State of Calif., microcopy, pamphlet to accompany, 1166

- appropriations, 1970—
- hearings, 7946, 14015
- reports, 12171, 15398, 16793

Assistant Secretary—

Fish and Wildlife, nomination of Leslie L. Glasgow, hearings, 8076

Fish and Wildlife and Parks, nomination of Clarence F. Pautzke, hearings, 1737

nomination of—

- Dole, Hollis M., hearings, 8076
- Klein, Carl L., hearings, 8076
- Smith, James R., hearings, 8076
- Public Land Management, nomination of Harrison Loesch, hearing, 8075

code of Federal regulations, 4274, 9817

Colbran Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 17059

Columbia River basin, cost incurred to preserve as source of salmon and steelhead trout, GAO report, 12732

Commissioner of Fish and Wildlife, nomination of Charles H. Meacham—

hearings, 8057

report, 9385

conservation and related subjects, publications, list, 7408

conservation yearbook series, 5756

cooperative water resources research and training, report, 4394

decisions, 2986

bound volumes, 794, 14400

contract appeals, 2987

Indian appeals, 2988

land appeals, 2989

solicitor's opinions, 2990

decisions and opinions, decennial index—

digest, 17393

investigate feasibility of water resource development proposals, reports, 9416, 12168, 15261

Library, accessions list, 1966-68 compilation, 2016

manpower, funding requirements and capability to oversee oil resource development activities on public lands in Alaska, hearing, 14046

National Wilderness Preservation System, status, proposals, 9251

policies, programs, and activities, hearings, 12228

press releases, 3297

research and development contracts and grants, guide, 14401

saline water research and development progress reports, 796-806, 2005-13, 4396-4405, 5760-63, 7084-90, 8415-22, 9955-76, 11280-287, 12825-826, 14403-407, 15853-864, 17093-99

Secretary, nomination of Walter J. Hickel, hearings, 4084

print additional copies, reports, 6759, 7919

Interior Department—Continued
 Secretary orientation and indoctrination meetings, hearings, 12228
 Solicitor, nomination of Mitchell Melich, hearings, 8076
 Steering Committee report, transmission study 190, 14409
 telephone directory, 807, 9977
 Under Secretary, nomination of Russell E. Train, hearing, 5452
 Wellfleet Job Corps Civilian Conservation Center, South Wellfleet, Mass., effectiveness and administration, GAO report, 12740
 Youth Conservation Corps, establish—
 hearing, 8077
 report, 10867
 Interlocking directorates, communications carriers, applications, FCC rules and regulations, 2837, 9749
 Intermediate credit banks, *see* Federal intermediate credit banks.
 Intermediate grades, *see* Schools.
 Intermittent claudication, by sex, age and level of characteristic, etc., Framingham study, 8691
 Intermolecular forces and liquid state, 5762
 Intermountain Forest and Range Experiment Station:
 publications, list, 11170
 recent reports, list, 3367
 Intermountain region, Forest Service, year-book, national forests in profile, 12689, 14273
 Internal-combustion engines, *see* Engines.
 Internal revenue:
 assessment lists, 1862-66, for—
 California, microcopy, pamphlet to accompany, 11513
 Territory of Colorado, microcopy, pamphlet to accompany, 6035
 code of Federal regulations, 4421, 5627-28, 6957-59, 8224, 9806-9, 11120-123, 11298-300, 15875, 17103
 code of 1954—
 amend, reports, 453, 1694
 cross references, 431, 16829
 code, tax reform hearings—
 charitable contributions, tax treatment, written statements of witnesses, 7984
 foreign tax credit and deferred executive compensation, tax treatment, written statements of witnesses, 7986
 gasoline taxes and moving expenses, tax treatment, written statements of witnesses, 7984
 minimum and maximum income tax on individuals and single persons, written statements of witnesses, 7984
 State and municipal bonds, tax treatment, written statements of witnesses, 7985
 tax treatment of the elderly, written statements of witnesses, 7984
 code, tax reform, proposals and studies, 5327
 code, tax reform subjects, press release announcing tentative decisions, 9376
 Federal revenue and expenditure estimates for States and regions, 1965-67 fiscal years, analytical review, 1701
 Internal revenue bulletin, 2991
 cumulative, index-digest supplement system, 11289-291, 12831-832, 14413-414, 15865-867
 index-digest quarterly system, 2992-93
 semiannual, cumulative, 808, 11292
 procedure and administration, IRS, loose-leaf regulations system, 2018, 4415, 5770, 7097, 9979, 11297
 refunds and credits of taxes, report, 12143
 revenue procedures, 5771-76
see also Excise taxes—Income tax—Taxation—*also* names of certain taxes, e.g. Income tax.

Internal review guide, Army pamphlet, 142
 Internal Revenue Service:
 administrative intern program, 7092
 career opportunities—
 estate tax attorney, 4408
 revenue agent, 15872
 revenue officer, 15873
 taxation, 4406
 Chief Counsel's Office, legal careers in Federal taxation, 17101
 circulars, 5765, 9978
 effective Revenue writing, basic course, 17100
 examination of returns and claims for refund, credit or abatement, determination of correct tax liability, 5772
 internal auditor, 15868
 internal revenue bulletin, index-digest quarterly system, 2992-93
 liquor laws and regulations for retail dealers, 4412
 looseleaf regulations system—
 employment tax, 3089, 11295
 estate and gift tax, 3088A, 11294
 excise taxes, 3090, 7096, 11296
 reprint, 15870
 income tax, 810, 2017, 3088, 4413-14, 7093-94, 15869
 procedure and administration, 2018, 3091, 4415, 5770, 7097, 9979, 11297, 17192
 report 1968—
 departmental edition, 5766
 document edition, 5324
 revenue procedures, 5771-76
 rules for deducting travel, entertainment, and gift expenses from income tax, 2020
 rulings and determination letters, issuance procedures, 5771, 5773-76
 summer employment opportunities, we thought you'd never ask, 5781
 tax information, publications, 1968-69, list, 2409
 Internal Revenue Taxation Joint Committee:
 committee prints, 9377, 10810-816, 15339-350, 16830
 cross-references within Internal revenue code, 431, 16829
 hearings, 16831
 summary of Senate amendments to H.R. 15414, Tax adjustment act of 1968, 432
 tax reform hearings dealing with—
 individual deductions, summary of problems, 7988
 minimum and maximum taxes, allocation of deduction, taxes of the elderly, etc., summary of problems, 7989
 tax exempt organizations, summary of problems, 7990
 Internal security, *see* National security.
 Internal Security Committee, House:
 designate, report, 5356
 hearings, 13933, 15322
 investigations and studies, expenses, report, 7888
 see also Un-American Activities Committee, House.
 International Aeronautical Exposition in United States, Federal sponsorship, authorize, report, 390
 International Affairs Bureau, special report, 9948
 International agreements:
 in force, list, 6304
 treaties and other international agreements, 1456, 6395, 13490, 16484-485, 17414
 compilation, 4979, 13489
 see also subjects, names of countries, etc.
 International agricultural development, monthly newsletter to cooperators, 2994
 International arbitration, *see* Arbitration.
 International Association of Governmental Labor Officials, 1968 convention proceedings, 8543

INDEX 1969

- international atom, new appraisal, 8882
- International Atomic Energy Agency :
 - application of safeguards to cooperation, agreement with—
 - Argentina, 14923
 - Brazil, 4974
 - Iran, 16481
 - Philippines, 7492
 - Portugal, 14919
 - Turkey, 13485
 - controlled thermonuclear research, 3d
 - IAEA conference at Novosibirsk, 3813
 - nuclear power and water desalting plants for southwest United States and northwest Mexico, preliminary assessment conducted by joint United States-Mexico-International Atomic Energy Agency study team—
 - executive summary, 5177
 - report, 5179
- International Biological Program—
 - hearings, 9370
 - report, 10720
- International bibliography of medicolegal serials, 13180
- International Botanical Congress, 11th, 6-cent commemorative postage stamp series (poster), 11590
- International boundary studies, 1444-45, 2489, 4964-67, 10415, 17407
- International Bureau for Protection of Industrial Property, Paris convention as revised at Stockholm, text, 5935
- International claims settlement act, *see* Claims.
- International classification of diseases, adapted for use in United States, 6178
- International code signals, international distinctive signs and emblems, military standard, 550
 - see also* Signals.
- International commerce (periodical), 2996
- automated cumulative index, 2997
- International Commerce Bureau :
 - foreign market reports, accessions list, 2905
 - international business publications, checklist, 7119, 15889
 - press releases, 3298
- International Committee on Weights and Measures, recommended unit prefixes, defined values and conversion factors, 11516
- International comparisons of medical care utilization, feasibility study, 11641
- International Congress on High-Speed Photography, participation by Federal agencies, reports, 10854, 16796
- International Convention on Load Lines, load lines, process-verbal of rectification in convention of Apr. 5, 1966, 7511, 14921
- International cooperation :
 - and understanding, inventory of Federal programs involving educational activities concerned with improving, 16958
- Central American—
 - economic integration, U.S. assistance to regional organization, briefing papers, 12220
 - woven strands, account of President Johnson's trip, 2488
- Central Treaty Organization, general information, 4967
- contribution of Social and Rehabilitation Service, programs, 17378
- foreign economic policy-trade, payments and controls (address), 1653
- patent cooperation treaty, funds for international conference, organize and hold in U.S., 1970, report, 10855
- scientific research (talk), 8670
- International copyright protection, 12334
- International Development Agency :
 - alliance for progress goals reviewed, report by Bureau for Latin America, 6717
 - biographic register, 13470
- International Development Agency—Con.
 - centrex telephone directory, 16462
 - development of cooperative enterprises under Foreign assistance act of 1961, report, 6708
 - economic assistance—
 - funds improperly used to finance vehicles for defense requirements, GAO report, 5778
 - programs, 8491
 - field staff, Foreign Service list, 2907
 - foreign aid provided through operations of United States Sugar act and international coffee agreement, GAO report, 17065
 - loan program financial activities, status June 30, 1968, GAO review, 14305
 - operations reports, 3225, 8490, 12860
 - Philippine citizen employees, social security coverage, agreement, 10419
 - press releases, 3299
 - procurement regulations, 8487-88, 12853
 - telephone directory, 6274
 - U.S. construction activities in Thailand, 1966-67, GAO report, 1952
 - Vietnam, improper practices, commodity import program, U.S. foreign aid, report, 6755
 - Washington, internal audit activities, GAO review, 4346
- International Development Association :
 - participation by U.S., increase—
 - hearings, 5370, 8064
 - law, 9240
 - reports, 6659, 6665, 8048
 - replenishment of financial resources, proposal, 12131
- International education, *see* Education.
- International Educational and Cultural Affairs, Advisory Commission on, *see* Advisory Commission, on International Educational and Cultural Affairs.
- International exchanges :
 - education, financing of exchange programs, agreement with Cyprus, 2503
 - foreign studies extension program research and training opportunities, abroad, 14142
 - international educational and cultural exchange (periodical), 2998
 - international educational and cultural exchange of persons program, 1968, report, 11707
 - Smithsonian service, annual report, 13431, 16405
 - teachers, opportunities abroad, 15642
 - toward mutual understanding, report on academic exchanges, 9842
- International fairs, *see* Fairs.
- International Federation of Automatic Control, papers presented at IFAC, June 16-21, 1969, Warsaw, USSR study, 15980
- International finance :
 - international financial system, developments (remarks), 17426
 - link between reserve creation and financial assistance to developing countries, proposal, 12131
 - recent international financial and monetary developments, hearing, 13923
- International geophysical calendars, 6923
- International Geophysical Year, 1957-58, aurorae and airglow, results of research on international Geophysical projects, 6026
- International Health, Education and Labor Council, establish, hearings, 495A
- International Health, Education, and Labor Foundation, establish, hearings, 495A
- International Human Rights Year :
 - continuing action for human rights, 8782, 11701
 - 1968 interim report, 1321
 - proclamation, 1442

International Human Rights Years—Con.
suggested activities and reading materials
for—
elementary schools, 2398
secondary schools, 2399
13-cent commemorative aerogramme—
address, 2389
poster, 1304
International implications of dumping
poisonous gas and waste into oceans, 9346
International Indian Ocean Expedition,
1964, survey ship, USC&GS Pioneer,
bathymetry, geomagnetic, and gravity
data, 15151
International Institute for Unification of
Private Law, amendments to art. 5, 16 and
18 of Institute statute adopted at 14th ses-
sion of UNIDROIT General Assembly,
7495
International labor (periodical), 3000
International Labor Organization:
and United States, 16006
conventions adopted and recommenda-
tions, minimum age for employment
underground in mines, 6574
International law, digests, 4962, 6272
International Load Lines, see International
Convention on Load Lines.
International Monetary and Financial Poli-
cies, National Advisory Council on, see
National Advisory Council on Interna-
tional Monetary and Financial Policies.
International Monetary Fund:
agreement, changes, to create new inter-
national reserve, Special Drawing
Rights, message from the President, 357
articles of agreement, amendment, agree-
ment, 17413
link reserve creation and development
assistance—
proposal, 12131
staff study, 6566
next steps in international monetary
reform—
hearing, 345
report, 346
Special Drawing Rights (addresses), 1479,
2521
International negotiations on Treaty on
Nonproliferation of Nuclear Weapons,
5105
International notams, 3001
International organizations:
international organization and conference
series, 7488, 8883, 11708, 13476, 16470-
471
international organizations series, 4967,
7489, 10416, 13477, 14905
public, exempt from District of Columbia
unemployment compensation act, re-
ports, 7910, 15382
U.S. missions, field staffs, Foreign Service
list, 2907
United States—
contributions, 364
foreign credits, 14949, 16512
see also International relations.
International Paris Airshow, aerospace tech-
nology marketing display, report, 15332
International postal service:
directory of international mail, 2773, 14770
international mail, general information,
16329
see also Postal service.
International relations:
aims and strategy of U.S. foreign policy
(address), 16469
American mood in foreign affairs, U.S.
National Commission for UNESCO,
memo, special issue, report, 16483
briefing by Secretary of State William P.
Rogers, hearing, 8062
code of Federal regulations, 6955
commitments of U.S. power abroad, issues
in United States foreign policy, 17401
discussion guide, 17406

International relations—Continued
convention on consular relations with op-
tional protocol concerning compulsory
settlement of disputes—
report, 16836
text, 9384
diplomatic and strategic impact of multi-
ple warhead missiles, hearings, 12217
executive control of U.S. foreign policy
should be significantly curtailed, 1968-
69 national collegiate debate topic, 356
foreign policy and operations of U.S., 1968,
review, 6734
print as Senate document, reports, 8021,
9122
foreign policy briefs, 2906
foreign policy information materials and
services, pocket guide, 10417
foreign policy of U.S.—
American foreign policy, 1966, current
documents, 6259
investigations and studies—
authorization, reports, 4054, 6649,
12193
expenses, report, 6679
State Department bulletin, 2760
western Europe, briefing film analyz-
ing nature and development since end
of World War II, discussion guide,
1438
foreign relations of U.S., diplomatic
papers—
American Republics—
departmental edition, 13174
document edition, 12134
British Commonwealth, the Far East—
departmental edition, 11704
document edition, 10690
British Commonwealth, Western and
Central Europe—
departmental edition, 11705
document edition, 10691
China—
departmental edition, 13473
document edition, 12133
conferences at Washington, 1941-42,
and Casablanca, 1943—
departmental edition, 2486
document edition, 1689
Eastern Europe, Soviet Union—
departmental edition, 16466
document edition, 15216
Near East and Africa—
departmental edition, 10412
document edition, 9248
foreign relations of U.S., publications,
price list, 10293
foreign relations report (text of President
Nixon's press conference), 7485
future of United States public diplomacy
reports, 6699, 9345
general foreign policy series, 4963, 6273,
7485-86, 8881-82, 11706, 16467-469,
17401-406
how foreign policy is made, 16467
international information and cultural
series, 11707
legislation on foreign relations, collection,
5441
Peking's approach to negotiation, selected
writings, 6786
planning-programing-budgeting system
and foreign affairs, reflections, memo-
randum, 473
psychological aspects of foreign policy,
hearings, 12298
satellite broadcasting, implications for
foreign policy, hearings, 10785
South Africa and United States foreign
policy, hearings, 10786
strategic and foreign policy implications
of ABM systems, hearings, 8068, 10900,
14031

International relations - Continued
 strategy and science, toward a national security policy for the 1970's, hearings, 7956
 print as House document, reports, 15287, 16857
 this changing world, reading guide for the General Sessions, 7491
 toward an open world (address), 16468
 underground weapons testing, international and other foreign policy aspects, study and evaluation, hearing, 16884
 understanding and cooperation, inventory of Federal programs involving educational activities concerned with improving, 16958
 United States—
 and Eastern Europe, Air Force Academy Assembly, final report, 65
 commitments to foreign powers, report, 8027
 foreign policy, major issues (statement), 8881
 policy in Near East crisis, 14906
 recognition of foreign governments, expressing sense of Senate —
 hearing, 10901
 report, 15358
 relations with Peru, hearings, 9462
 role in Pacific community (address), 16464
 USSR international economic relations, translations, 3561
 winning cold war, U.S. ideological offensive, hearings, 9345
 world of nuclear powers? Air Force Academy Assembly, final report, 64
see also Politics,
 International Research Group on Refuge Disposal, information bulletins, 10319
 International science notes (periodical), 3002
 International security, free world commercial and security interests, United States maritime policies and their relationships (remarks), 8209
 International Statistical Programs Office, series ISPO 1, 1624
 International Statistical Training and Workshop Office, supplemental courses for case studies in surveys and censuses, ISP series, 1625, 5232
 International trade, *see* Commerce,
 International trusteeships, trusts and territories, Federal outlays, report of Federal Government's impact by State and county, 9625
 International Whaling Commission, convention, amendment to schedules, 1454
 Internists, *see* Physicians.
 Interns, *see* Dentists—Physicians.
 Interparliamentary Group, Canada-United States, *see* Canada-United States Interparliamentary Group.
 Interparliamentary Group, Mexico-United States, *see* Mexico-United States Interparliamentary Group.
 Interplanetary flight, *see* Astronautics.
 Interplanetary mission, *see* Planets.
 Interplanetary space, *see* Outer space.
 Interplanetary trajectories, *see* Trajectories.
 Interplanetary vehicles, acceptance testing, planetary vehicles, concept, 2236
 Interpretative bulletins, Wage and Hour and Public Contracts Divisions, 2540, 6347, 7560
 Interstate agreements:
 District of Columbia, adoption of interstate compact on juveniles, reports, 12182, 15383
 Illinois-Indiana air pollution control, consent of Congress, hearings, 8089
 New Hampshire-Vermont interstate school compact—
 law, 10683
 reports, 7935, 8036

Interstate agreements—Continued
 oil and gas compact, consent of Congress to extend, report, 9429
 personnel training, authorize compacts, hearings, 8070
 solid waste planning grants and agencies, 7428-29
 streams, use and control, 3946
 Upper Nobrara River compact, congressional consent—
 law, 15200
 report, 10862
 water resources planning act of 1965, river basin commissions established under the act, report, 5332
 West Virginia-Ohio air pollution control compact, consent of Congress, hearings, 8089
 Interstate Airmotive, Inc., aircraft accident, 14717
 Interstate and Foreign Commerce Committee, House:
 activities, 90th Congress, 2d session, 3977
 calendar, 3044
 hearings, 404, 5377-78, 6719-20, 7961-65, 9354-61, 10793-796, 12231-233, 15223-325, 16820
 investigations and studies—
 authorization, report, 5352
 expenses, report, 7884
 joint committee print, 5458
 legislative history of the fairness doctrine, staff study, 6721
 reports, 3977, 5360, 5363, 6654, 6683, 9299, 9303-4, 9308-9, 10717, 10731, 10750, 12159-160, 13910, 15228, 15285, 15293
 Interstate commerce, *see* Commerce—Labor laws.
 Interstate commerce act, *see* Carriers—Motor carriers—Railroads.
 Interstate Commerce Commission:
 appropriations, 1970, hearings, 16810
 career opportunities, 12864
 accountants and auditors, 11313
 Commissioner, nomination of—
 Burke, Wallace R., hearings, 1737
 Jackson, Donald L., hearings, 9452
 decisions (bound reports), 827, 5805
 10004, 11314, 14430, 17122
 decisions (separates)—
 finance, 3003
 motor carrier, 3004
 motor carrier finance, 3005
 traffic, 3006
 judicial review of ICC orders, hearing, 404
 policies and practices, review hearings, 15426
 reorganization—
 hearings, 16886
 message from the President, 12153
 report, 1968—
 departmental edition, 4427
 document edition, 3954
 rules and regulations governing filing of surety bonds, etc., by motor carriers and brokers, 829
 rules of practice, 828, 5807
 transportation specialist, unmatched carriers with ICC, 11312
 Interstate compacts, *see* Interstate agreements.
 Interviewers, employment security, appointments, separations, promotions, analysis, 1977
 Interviewing:
 guides for specific disabilities, 8179
 guides, suggestions for using for specific disabilities, 17420
 interviewers manual for 1969 wheat objective yield survey, 7337
 Intestines:
 parasites diagnosis, laboratory procedures, 17341
 parasites in intestines of man, morphology of diagnostic stages, 16355

Intoxicants, *see* Liquors.
 Intoxication, *see* Drunkenness.
 Intracoastal Waterway:
 Gulf, St. Marks to Tampa Bay, Fla.,
 engineers report—
 departmental edition, 595
 document edition, 366
 Gulf section, New Orleans, La. to Port
 Arthur, Tex., etc., navigation maps, 2180
 Intraocular dynamics of dogs exposed to
 near-vacuum pressures, 1549
 Intraocular pressure, *see* Pressure.
 Introduction to Antarctica, 17316
 Intuition (psychology):
 and its experimental study, USSR, 7143
 Inundaciones en Caguas, Puerto Rico, como
 evitarlas, 12545
 Inventions:
 advancing material of indeterminate-
 length, classification definitions, 1289
 index of patents, 1968, subjects, 16322
 Inventories:
 Army and Air Force controls in Europe,
 GAO report, 11204
 automatic data processing equipment in
 Federal Government, 4286
 Government-owned property in U.S., ter-
 ritories, etc., 7957
 green coffee, current business reports, 2725
 hospital reserve disaster inventory, emer-
 gency medical supplies, 14789
 international understanding and coopera-
 tion Federal program involving educa-
 tional activities concerned with improv-
 ing, 16958
 job inventory information, task reliabilities
 and scale interrelationships, 3690
 livestock and poultry, 6311
 manufacturers'—
 current industrial reports, 2732
 shipments, and orders, 1961-68, 248
 National Archives preliminary inventories
 series, 1171-72
 plants, material received by New Crops
 Research Branch, 6363, 7575, 11798
 real property—
 leased to U.S. throughout world, report,
 9881
 owned by U.S. throughout world, report,
 7039
 Invertebrates, neoplasms and related dis-
 orders, 16258
 see also Fossils—Mollusks.
 Inverter-converter automatic paralleling and
 protection, 5971
 Inverters:
 inverter-converter parallel operation, 4663
 inverter testing of high-temperature
 cesium-vapor thyatrons, 16142
 static, and converters, magnetic materials
 for, evaluation, 4664
 Investment companies:
 act, amendments of 1969—
 analysis, 6777
 hearings, 8053
 report, 9414
 act of 1940—
 amend—
 hearings, 8053
 report, 9414
 as amended, 11657
 regulations S-X, 1375
 rules and regulations, 2443
 SEC releases, 3008
 equitable standards governing relation-
 ships between their investment ad-
 visers and principal underwriters,
 define—
 hearings, 8053
 report, 9414
 mutual fund distributions, tax informa-
 tion, 4420
 registered under act of 1940, 1968 list,
 10356
 small business capital bank, establish,
 hearings, 14019

Investment companies—Continued
 small business investment act, amend, re-
 ports, 13393-994
 small business, SBIC industry review,
 7450
 Investment trusts, *see* Trusts and trustees.
 Investments:
 advisers act of 1940—
 amend—
 hearings, 8053
 report, 9414
 rules and regulations, 8845
 Conference on Direct Investment in At-
 lantic area (address), 7794
 District of Columbia, legal investments
 for trust funds, lists, 4149, 14116
 foreign direct investment controls, termi-
 nate, hearings, 10781
 foreign direct investment program
 (address), 308
 foreign, living with direct controls (re-
 marks), 5293
 foreign, mandatory program of restraints
 (remarks), 6998
 forestry opportunities under three invest-
 ment criteria, computer program for
 evaluating, 15774
 guaranties, agreement with—
 Antigua, 2496
 Nicaragua, 2498
 St. Christopher, Nevis and Anguilla,
 6290
 Western Samoa, 17412
 impact of direct investment upon U.S. ex-
 ports (speech), 6997
 income and expenses, tax information,
 8449
 investment advisers act, SEC releases,
 3007
 investment credit—
 repeal, tax reform hearings, summary
 of testimony, 15350
 tax information, 8428
 terminate—
 hearings, 10895
 public hearing, 10808
 reports, 10739, 10742, 12270
 mutual savings institutions, tax reform,
 hearings, summary of testimony, 10813
 private, in inner city, hearings, 460
 small business investment act—
 amend, hearings, 14019
 with amendments, compilation, 354
 timber production investments under un-
 certainty, computer program to evalu-
 ate, 4311
 Investors:
 Farmers Home insured notes, investors'
 opportunity, 11883
 Institutional, effect on securities market,
 study, extend time and increase
 authorization—
 hearing, 15325
 reports, 9435, 15285
 restrict transfers to foreign countries by
 substantial investors in U.S. etc., 14432
 Inviscid flow, *see* Flow.
 Invitation to visit OEO public information
 center, 6847
 Inyo Mountains, descriptive petrography of
 3 large grauwacke bodies, 5721
 Inyo National Forest:
 guide to forest of ancient bristlecone pines,
 14265
 Mammoth-High Sierra Recreation Area,
 general information, 8281
 recreation development at Trail Peak,
 proposal, 673
 Iodine:
 iodine-125, use for determining plasma
 volume, blood volume and red cell mass,
 90
 tablets, soft drink mixes, effect on germi-
 cidal properties of, 14510

Iodine Isotopes:

- iodine-125, measuring iron metabolism in hematopoietic centers, 104
- radioiodine, controlled environmental tests, National Reactor Testing Station, 1967 progress report, 6468
- simultaneous determination of ^{50}Fe , ^{51}Cr , and ^{125}I , using gamma spectrometer, 89
- ion beams, beam transport systems, FORT-RAN programs for 1st order calculation of properties, 13278

Ion exchange:

- counter-current continuous, removal of calcium from sea water to prevent scaling of distillation errata, 14403
- design-optimization procedure for ion-exchange and adsorption columns, study, 17099
- electrochemically controlled ion-exchange desalination transport processes, 7088
- materials, refined adaption, research study, 2296
- SUL-BISUL process, field evaluation on brackish waters, 9976

Ion exchange resins, see Resins.

Ion exchangers:

- adsorption columns, axial-dispersion constant pattern kinetics, 17098
- mixed-bed applications, USSR study, 12886

Ion gages, see Ionization gages.

Ion microscope, see Microscopes.

Ion thrusters:

- electron bombardment thruster operated with cusped magnetic field, 16188
- glass coated electron-bombardment ion thruster grids, fabrication process, 13107
- performance of various oxide-magazine cathodes in Kaufman thrusters, 7262

Ionization:

- argon plasma, superhigh-frequency generation, 16606
- equilibrium equation of state at stellar temperatures and densities, tables, 6142
- methane ionization detector, extended testing, 7690
- multiphoton ionization of sodium atom, 15073
- platinum-catalyzed combustion and ionization, effect of oxygen concentration, 13284
- potentials, appearance potentials, and heats of formation of gaseous positive ions, 10174
- rate coefficient relevant to H_2UV laser, 10251
- use of photoionization in measuring velocity profile of free-stream flow in Langley pilot model expansion on tube, 2241

Ionization gages:

- designs, low pressure application, study, 11403
- hot cathode ionization type vacuum gages, empirical observations on sensitivity, 11484

Ionizing radiation:

- effects of rate of delivery on LD 50/30 of rodents, 91
- effect on—
 - ammonium perchlorate-base fuel combustion, USSR study, 15899
 - colloids, report, 5150
 - late somatic effects of, 3812
 - treatment of poultry to destroy salmonellae, 7687, 7713
- see also Radiation.

Ionograms, topside, from N(h) profiles, computation, 8613

Ionosphere:

- acoustic waves, observations following nuclear explosions, 1835
- artificial ionospheric plasma cloud evolution as studied by HF and VHF radar, 13290

Ionosphere—Continued

- earth-ionosphere waveguide, VLF mode calculations for propagation across land/sea boundary, 1833
- electric field, theory of origin and effect, 1533
- fbEs for solar cycle minimum, numerical maps, 14167
- ionospheric disturbances associated with proton flare, 1834, 4217
- ionospheric mapping by numerical methods, advances, 11025
- ionospheric predictions (periodical), 3010
- propagation delay measurement techniques using dual phase coherent doppler frequencies and thin shell model, 13288
- sudden ionospheric disturbances, detection, 6918
- telecommunication facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement with Australia 8889, 16472

Ions:

- containment, analysis of electron analog simulation in magnetic fields, 8653
- counter-ions influence on permselective membranes, 4396
- gaseous positive ions, ionization potentials, appearance potentials, and heats of formation, 10174
- ion energy loss in vapor-deposited materials evaluation of technique for measuring, 16179
- ion flux and target plasma interaction during charge exchange, 5144
- ions in aqueous saline systems, heats and entropies of transport, 7089
- mathematical techniques for EPR analysis of S-5/2 ions in Ca symmetry, application to Fe^{3+} in quartz, 11523
- molecular collisions with long-lived capture complexes, computer plotting description, 14645
- negative ion production in atmospheric gases, measurements, 16131
- nitrate ion, dilute solution reactions, as applied to water reclamation, 14245
- satellite ion-electron collector, experimental effects of grid transparency, photoemission, and secondary emission, 6913

see also ions by name e.g. Sodium.

Iowa:

- Agricultural Stabilization and Conservation Service—
 - annual activity summary, 11826
 - program summary, 13559
- census of business, 1967, retail statistics, 13738
- climatological data, 2662
- dealers in trout and pondfishes, list, 10387
- electric rate book 9786
- Federal outlays, report of Federal Government's impact by State and county, 9548, 9598
- Indian vital statistics, 10313
- mineral industry, minerals yearbook chapter, 2145
- National Park Service, Iowa Governor's book, 14705
- precipitation data, hourly, 2962
- water resources data, 8350, 9911
- W series, 4387, 5744-48, 70-76, 8398-8400, 11264-265, 12813-815 14387-392, 15835-836

lps beetles, see Beetles.

Iran:

- atomic energy cooperation for civil uses, agreement, 14927, 16481
- economic trends and their implications for United States, 2034, 9997, 17113
- foreign trade regulations, 10656
- military missions, agreement, 6288
- plant quarantine import requirements, 13550
- scientific cooperation, agreement, 13486

Irani, Meherwan C.:
mineral industry of—
Rhode Island, 966
West Virginia, 4630

Iraq:
Army area handbook, 9049
background notes, 14899
mineral industry, minerals yearbook chapter, 2146

Ireland:
alien amateur radio operators, authorization to operate, agreement, 2495
economic trends and their implications for United States, 8471
immigrants, make additional visas available to hearings, 406
livestock and meat industry, 11154
sailing directions, change, 2328

IRGRD, *see* International Research Group on Refuse Disposal.

Iris, growing in home garden, 11867

Irises (mechanical apertures):
thin film irises, 11414

Iron:
and steel—
minerals yearbook chapters, 942, 17177
scrap, use in extraction of copper from oxides, principles and application to pure systems, 16101
anodic oxidation of hydrogen on iron in sodium hydroxide solution, 6137
basic, and steel, industry wage survey, 2111
compounds, Mossbauer spectrometry for analysis, 11959
corrosion products of iron and their relation to corrosion in steam-generating equipment, 13293
electrode, high-purity closed alkaline systems, potentiostatic current-potential measurements, 2353
foundries, industry wage survey, 14457
industry, employment outlook, 4582
low cost iron-base alloy to resist corrosion in hot sea water, development, 4401
metabolism, measuring in hematopoietic centers using iron-59 in presence of chromium-51 and iodine-125, 104

ore—
metallization, with solid reductants, 14554
mineral industry survey, monthly, 3011
pellet bonding of Minnesota clay resources, field investigation and testing, 2173
Steep Rock iron-bearing materials, reduction roasting operations, 5962
resources in Irving Formation, 14329
slag-iron and steel, minerals yearbook chapter, 14561
see also Cast iron.

Iron castings, *see* Castings.

Iron isotopes:
measuring iron metabolism in iron-59, hematopoietic centers, 104
modified ^{59}Fe ferrokinetic procedure, 13632
simultaneous determination of ^{59}Fe , ^{51}Cr , and ^{125}I , using gamma spectrometer, 89

Iron ores, *see* Iron.

Iron oxides, films generated in dilute lithium hydroxide solution at 300°C, growth characteristics, 1261

Ironweed, response to herbicides and to herbicides in combinations with mowing, nitrogen fertilizer, and surfactants, 5068

Ironworkers, structural and other iron workers, employment outlook, 4557

Irradiation, *see* Electrons—Gamma rays—Neutrons—Radiation.

Irradiators:
fishery products, shipboard irradiator studies, final report, 5174
portable cesium irradiator—
operational reports, 13701
visit to Washington State, 13702

Irradiators—Continued
portable shipboard, commercial irradiation of shellfish, final report, 7693

Irrigation:
and land reclamation in Soviet agriculture, 5818
contour-levée, SCS national engineering handbook, 13443
desalted water for irrigation, value, study, 14843
Four-States Irrigation Council, annual meeting, proceedings, 4908, 10348
mineral quality prediction of return flow water from irrigated land, research proposal, 11650
operation and maintenance bulletin, 3012
quality of surface waters, Western States, 5726
SCS national engineering handbook, 13443
South Dakota research needs, joint conference, Bureau of Reclamation and South Dakota State University, 8829
sprinkler irrigation, soils, climate, and land classification, 14841
Western States, quality of surface waters, 7063, 9336, 11254
see also Canals.

Irrigation projects, *see* Reclamation of land—*also* names of projects.

IRS, *see* Internal Revenue Service.

Irvin, Matthew W.:
Armed Forces report, forces for freedom, 6822
defense industry bulletin, 2753

Irvine, Dallas, military operations of Civil War, guide-index to official records of Union and Confederate Armies, main eastern theater of operations, comprehensive index of recognized military operations, 17260

Irvine, James F., inspection, repairs and modifications, and flight test of flexible-wing manned test vehicle XV-8A, 1583

Irving, George W., jr., talk, Nov. 23, 1968, 3630

Irwin, Kirk S., summary of XB-70 airplane cockpit environmental data, 16189

Irwin, Richard, projections of population of metropolitan areas, 5217

Irwin County, Ga., soil survey report, 7465

Isgrig, Dan, soil survey, San Benito, Calif., 17390

Islam, *see* Mohammedanism.

Island news and comment, 8851, 17371

Islands, *see* Caribbean area—*also* names of islands.

Isle Royale National Park, general information, 1224

Islets of Langerhans, *see* Pancreas.

Islip, N.Y., population of town, special census, 16665

Isolimmunization, *see* Immunization.

Isolation, non-Newtonian gelled fluids as shock- and vibration-isolation medium, feasibility study, 15055

Isolators, Kaman dynamic antiresonant vibration isolator (DAVI), use for passive helicopter rotor isolation, 10553

Isothermal flow, *see* Flow.

Isotopes:
alpha emitting, production of monoenergetic X-rays, generation and practical use, 5163
Belorussia, conference, 859
Californium-252, radioisotopes with a future, symposium proceedings, 9066
development of radioisotope procedures for measuring water movement in trees, 16629
development program, AEC authorizing legislation, 1970, hearings, 9243
integrated life support system for aerospace application utilizing radioisotopes for thermal energy, design study, 3799
isotopes and radiation technology, quarterly technical progress review, 3013

- Isotopes—Continued
 isotopic composition of diagenetic carbonates in marine miocene formations of California and Oregon, 11246
 radioactive isotopes, distribution and biological effects, 1594
 radioisotope-fueled stirling engine, application to circulatory support systems, 5178
 radioisotopes—
 diffractometry with ^{55}Fe and Beta excited X-ray sources, final report, 7678
 potential economic benefits from use in flow measurements through high-head turbines and pumps, 10347
 production and applications, USSR study, 8509
 simultaneous determination of ^{60}Fe , ^{61}Cr , and ^{125}I , using gamma spectrometer, 89
 sources, X-ray analysis, 6469
 radioisotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
 see also names of isotopes, e.g., Radon isotopes.
- Isotopes Development Division, AEC, research and development projects, 1968, progress reports, 7707
- ISP series, 5231
 ISP 2 series, 9164
 ISP 3 series, 6504-6, 7750-51, 12018
 ISPO, see International Statistical Programs Office.
- Israel:
 accessions list, Library of Congress, American Libraries Book Procurement Center, Tel-Aviv, 3014
 agricultural commodities, agreement, 7507
 agricultural economy in brief, 12416
 desalting plant, large prototype, U.S. participation in development, hearings, 13928
 foreign economic trends and their implications for United States, 5795
 foreign trade regulations, 15168
 mineral industry, minerals yearbook chapter, 16084
 United States policy in Near East crisis, 14906
- Israel-Arab Border conflicts, see Fedayeen.
- Issas and Afars, French Territory of, see French Territory of Afars and Issas.
- Issues in financing old-age and survivors insurance, 2108
- Isthmian Canal, see Panama Canal.
- Istle:
 suspension of duty, continue—
 law, 15213
 reports, 7906, 13997
- It works, 6868-78, 6889-94, 6899-6901
- Italian American War Veterans of United States, Inc., proceedings, print as House document, report, 15290
- Italians in United States, contributions to American life and Government (address), 16703
- Italy:
 Ambassador, nomination of Graham A. Martin, hearing, 15454
 background notes, 11693
 economic trends and their implications for United States, 7104, 17105
 market factors, 10659
 market share reports, use, country report, 6542
 mineral industry, minerals yearbook chapter, 2147
 records of Department of State, microcopy, pamphlet to accompany—
 internal affairs, 2274
 political relations, 10168
 U.S. Army, Southern European Task Force, personnel ordered to, helpful hints, DA pamphlet, 16596
 west coast, sailing directions, 8746
- Item identification, see Identification.
- Item management coding manual, 8116
- Iteration (mathematics):
 iterated commutators and functions of operations, 1083
 iterative solutions, second-order errors in linearized velocity corrections and their effects on rate of convergence of, 6003
- It's Y.O.U., 14136
- It's your choice, how to choose the military service program that will serve you best, 5495
- It's your world, grassroots conservation story, 5754, 5756
- ITS, see Institute for Telecommunication Sciences.
- ITV (instructional television), see Television.
- Ives, George S., nomination, hearing, 15474
- Ivory Coast:
 capsule facts for Armed Forces, 5101
 economic trends and their implications for United States, 2037, 12843
 U.S. exports, best prospects, overseas business reports, 1657
- Izard County, Ark., community profile, 12399
- Izett, Glen A., geology of Hot Sulphur Springs quadrangle, Grand County, Colo., 748

J

- J. N. Ding Darling National Wildlife Refuge, general information, 6249
- Ja Lee Ok, see Lee Ok Ja.
- Jabara, M. A., Tiber Dam auxiliary outlet works, 16394
- Jacinto Antonio, Franklin, relief, 9266, 12100, 13961
- Jack Smith Creek, flood plain information, 12469
- Jacklin, H. M., jr., remarks, Jan. 15, 1968, 16241
- Jackman, Kenneth, experimentally oriented science exhibits from Lawrence Hall of Science, 3811
- Jacks, Federal item identification guide, 8123, 12359
- Jackson, Carolyn A., revised equivalence scale for estimating equivalent incomes or budget costs by family type, 890
- Jackson, Charlie, M., jr.:
 method for determining surface pressures on blunt bodies of revolution at small angles of attack in supersonic flow, 2229
 method for determining total drag of pointed body of revolution in supersonic flow with turbulent boundary layer, 7253
- Jackson, Donald L., nomination, hearings, 9452
- Jackson, Francis C., role of medicine for emergency preparedness, 4877
- Jackson, Samuel C.:
 addresses, etc.—
 Apr. 21, 1969, 8390
 July 27, 1969, 12818
 nomination, hearing, 5431
- Jackson, T. J.:
 printing machinery trends, 11977
 textile machinery trends, 1964-1968, 15088
- Jackson, Miss.:
 area wage survey, 10024
 Cany Creek floods, how to avoid damage, 12527
 Purple Creek floods, how to avoid damage, 12536
 vicinity, flood plain information, 9697-98
- Jackson County, Ark., community profile, 15569
- Jackson County, Colo., Poison Ridge volcanic center and related mineralization, 5706
- Jackson County, Mo., work experience and training project, administration and effectiveness, GAO report, 12729

- Jackson County, N.C., forest inventory statistics, 16498
- Jackson Purchase region, Ky., stratigraphic and mineralogic relations and ceramic properties of clay deposits of Eocene age, 7047
- Jacksonville, Fla.:
area wage survey, 8555
flood plain information, 9687
floods, how to avoid damage, 10999
port, 14152
- Jacobs, D. G., sources of tritium and its behavior upon release to environment, 5176
- Jacobson, Herbert S.:
geology and mineral deposits of San Cristóbal district, Villa Martin Province, Potosi, Bolivia, 7042
mineral investigations in northeastern Thailand, 12784
- Jaffe, Beatrice, relief, 7866
- JAG journal, 3015
- JAG law review, 3016
- Jamaica:
background notes, 6264
economic trends and their implications for United States, 9998
marine biofouling studies in Montego and Oyster Bays, oceanographic cruise summary, 13253
- James, George A., pilot test of sampling procedures for estimating recreation use on winter sports sites, 1936
- James, Joseph, or heirs, relief, 9393
- James, Reese E., extra-alveolar air resulting from submarine escape training, post-training roentgenographic survey of 170 submariners, 7198
- James Madison Memorial Building, Library of Congress construction funds, increase authorization, report, 16855
- Jameson, Albert E., jr., relief, 10708
- Jameson, Donald A.:
herbage production differs with soil in pinyon-juniper type of Arizona, 9851
species interactions of growth inhibitors in native plants of northern Arizona, 1921
- Jamesson, Wayne R., dental X-ray teaching and training replicas, 2421
- Janitors, job grading standard, civil service, 285
- Janos, Joseph J., forces and moments due to air jets exhausting parallel to large flat plates in near vacuum, 8630
- Janz, G. J.:
electrochemistry of molten salts, Gibbs free energies and excess free energies from equilibrium-type cells, 14666
molten salts, electrical conductance, density, and viscosity data, 1176
surface tension data, 14666
- Japan:
background notes, 17398
business machines industry, 1654
claims of Trust Territory of Pacific Islands against Japan, agreement, 14925
cotton textiles, trade, agreement, 1453
cultural educational cooperation, joint committee on, agreement, 4977
defense, acquisition and production of F-4EJ aircraft, agreement, 8900
economic trends and their implications for United States, 8465
employment policies, report, 12960
fisheries—
King crab, agreement, 6293
off Alaska, development and history, 10664
off U.S. coast and salmon fisheries, agreement, 12692
food demand and 1985 grain import prospects, 10973
Japanese current meter arrays, analysis, 13222
loan of vessels U.S.S. Edwards and U.S.S. Leary, extension, agreement, 14913
- Japan—Continued
market prospects for U.S. horticultural products in Japan, 15748
military personnel of U.S. Army ordered to, helpful hints, 16595
mineral industry, minerals yearbook chapter, 4623
mutual defense assistance, agreement, 10422
Mutual Defense Assistance Office, agreement, 14917
Okinawa tracking station, agreement, 2492
processed wood, can Webb-Pomeroy act help U.S. sell more to Japan?, 12713
shipments of printed matter to points in Pacific, savings by Defense Department, GAO report, 11225
sources of information on labor, 4471
south, sailing directions, change, 10235
space cooperation, agreement, 16476
United States-Japan cooperative medical science program, annual report, 6572
United States Marines in occupation of Japan, 16045
- Japan, Sea of:
oceanographic cruise summary reconnaissance survey, 10218
temperature, salinity, and density, 13220
Japanese beetles, see Beetles.
- Jarvis, N. L., monomolecular films of polydimethylsiloxanes on organic liquids, 7384
- Jasperoids, gold-bearing in Drum Mountains, Juab and Millard counties, Utah, 9893
- Java, sailing directions, change, 4820
- JCH series, 4151, 5520-21, 8144, 17140-141
- Jean, A. Glenn, detection of sudden ionospheric disturbances, 6918
- Jefferson, Ted B., welding and flame-cutting processes and practices, 7453
- Jefferson County, Ark., community profile, 15570
- Jefferson County, Colo.:
geology—
beryllium deposits of Lake George (or Badger Flats) beryllium area, 12781
ore deposits of southern Tarryall region, Park and Jefferson Counties, Colo. (series), 12781
- Jefferson County, Mont., gold resources, systems approach to recovering, 16104
- Jefferson's manual, text, 7838, 9378
- Jelliffe, Derrick B., child nutrition in developing countries, handbook for fieldworkers, 1311
- Jellison, Jane, sliding friction of copper alloys in vacuum, 1065
- Jemez Mountains, volcanic rocks, stratigraphic nomenclature, 9889
- Jendresen, Malcolm D.:
character of Air Force dentistry, 3691
laboratory comparison of four zinc oxide-eugenol formulations as restorative materials, 9006
- Jenkins, I. C., paper, Mar. 28, 1969, 14813
- Jenkins, Jerald M., flight measurements of canard loads, canard buffeting, and elevon and wing-tip hinge moments on XB-70 aircraft including comparisons with predictions, 13132
- Jenkins, Julian L., jr., parametric study of blade-motion stability boundaries for articulated rotor, 6002
- Jenkins, Kenneth H., sewage and water works construction, 6991
- Jenkins, Robert, farmers' expenditures in 1964, for custom pesticide service, 567
- Jenkins County, Ga., soil survey report, 6244
- Jenkinson, Paul M., compressive and shear properties of polyamide honeycomb core, 12696
- Jennings, John, Rx label, basis for all prescribing information, 5661
- Jensen, Michael E., observations of continental European solid waste management practices, 17351

- Jensen project, water quality, evaluation of impact of proposed Reclamation Bureau project, 12656
- Jerman, Albert C.:
denture identification, 1539
laboratory testing of silver amalgam restorative material with stannous fluoride, 10529
- Jersey, *see* Channel Islands.
- Jersey cattle, *see* Cattle.
- Jersey City, N.J., area wage survey, 10025
- Jester Creek:
floods in Atlanta, Ga., how to avoid damage, 12541
flood plain information, 9696
- Jet aircraft, *see* Aircraft.
- Jet engines, *see* Engines (aircraft).
- Jet fuels, *see* Fuel.
- Jet plumes:
back flow from jet plumes in vacuum, 2266
propulsion motor plume, estimating diameter of plasma, 14746
- Jet pumps, *see* Pumps.
- Jets:
attached inviscid, injection at oblique angle to moving stream, 17246
dynamic response of liquid jet atomization to acoustic oscillations, analysis, 13117
exhaust location, effects on longitudinal aerodynamic characteristics of jet V/STOL model, 13113
external-flow jet-augmented flaps on jet transport model, static and dynamic stability derivatives, 14646
external-flow jet flap, wind-tunnel investigation of large jet transport model, 2238
gaseous jets in supersonic flow, interaction, and penetration, 13047
inviscid rotating coaxial jets, hydrodynamic stability, 8602
inviscid separated, injection at oblique angle to moving stream, 16194
jet-augmented auxiliary-flap, direct-lift-control system, flight-determined aerodynamic properties, 10109, 13070
jet impingement under vertical-takeoff airplane, analysis of 2 dimensional inviscid model, 13092
jet-induced lift effects on VTOL aircraft in hover model tests, 7233
jet temperature effect on jet and pure tone noise radiation, 17211
mechanisms of plasma jet cutoff by transverse magnetic fields, investigation, 5142
parallel slot jets impinging normally on a surface, inviscid flow analysis, 2256
path of jet directed at large angles to subsonic free stream, 1132
photographic study of bromine jet flowing in coaxial airstream and impinging on stagnation surface, 8650
recirculation effects produced by pair of heated jets impinging on ground plane, 8590
scaled lunar module jet erosion experiments, 8612
turbulence in mixing region between ducted coaxial streams, 13039
turbulent mixing, unified analysis, 13046
twin-jet, swept-wing fighter airplane, analysis of flat-spin characteristics, 16166
two dimensional inviscid jet flow from two nozzles at angle to plane surface, 6012
- Jewel bearings, need for improvement in procuring and stockpiling, GAO report, 8331
- Jewelers, and jewelry repairmen, employment outlook, 4565
- Jewelry:
gold and silver content manufactured articles, misrepresentation of quality, provide civil remedy—
hearing, 10891
report, 9424
Jewelry repairmen, *see* Jewelers.
Jewels, *see* Precious stones.
Jewett, Ann, physical fitness test standards for women marines, 14505
Jewish Historical Society of Greater Washington:
lease of District property to—
law, 16734
reports, 13865, 13989
Jews, anti-Semitism in Soviet Union, hearings, 10791
Jimenez Cortina, Aurelio J., relief, 4021
Jinisphere balloons, *see* Balloons.
Jimmy has more fun, 12326
Jirberg, Russell J., superconductive dust cores for inductive elements, 7295
Joachim, Charles E., close-in ground motion and earth stress, 3806
- Job analysis:
job descriptions, publications, price list, 2404
job evaluation and ranking in Federal Government, report, 5359
job grading standard, civil service—
aircraft mechanic, 7775
automotive mechanic, 7776
boiler plant operator, 16683
carpenter, 7777
cook, 3879
electrician, 12048
elevator operator, 12049
fork lift operator, 3880
intermediate jobs, 3881
laundry machine operator, 7779
motor vehicle operator, 3882
presser, 7780
sewage disposal plant operator, 16684
sheet metal mechanic, 16685
trades helper jobs, 3883
water treatment plant operator, 16686
job grading system for trades and labor occupations, 280-281, 3018, 3877, 7772-73, 9190, 12047, 16681
job inventory information task reliabilities and scale interrelationships, 3690
job qualification system for trades and labor occupations, 12050
job restructuring, handbook, 16504
position classification in Federal Government, study, 3995
survey of 28 Air Force career ladders with 19 job inventories, 8997
- Job-associated problems encountered by airmen in southeast Asia as reported by returnees, 10511
- Job Corps:
centers—
closing, inquiry into decision, hearings, 8081
list, 562
tables of allowances, 4151
the ripples reach all shores, story by Francis Tighe, 6848
community relations manual, 8144
Eight Canyon Job Corps Civilian Conservation Center, effectiveness and administration, GAO report, 11211
ex-job corpsmen survey, hearings, appendix, 14315
handbooks, 4151, 5520-21, 8144, 17140-141
Keystone Job Corps Center for Women, Drums, Pa., effectiveness and administration under Economic opportunity act of 1964, GAO report, 11212
men's centers, vocational course offerings, 17141
payments and charges to members, GAO report on selected aspects, 11226
placement manual, 17140

Job Corps—Continued
 program, administration, message from the President, 6575
 program, express sense of Senate in regard to changes, report, 8045
 staff newsletter, 3017
 teacher, and guidance counselor, examination announcement, 5272, 12038
 they're ready to work in your hospital, 8149
 training standard for painter, 5521
 women's centers vocational programs, 5520
 Job description, *see* Job analysis.
 Job development for hard-to-employ, 14441
 Job evaluation, *see* Job analysis.
 Job horizons for women and girls in District of Columbia, report of conference, 17443
 Job performance, *see* Work.
 Job satisfaction:
 aircrew attitudes and job satisfaction trends, wives' report, 100
 aircrew trends, 2-year study, 13630
 Job seekers, *see* Unemployed.
 Job setters (machine shop):
 employment outlook, 4519
 Jobs, *see* Civil service—Employment—Job analysis—Occupations—Training—Women—Work.
 Joe Poole Postal Station, designation, ceremony (remarks), 1307
 Jöhler, J. Ralph:
 ground wave propagation in normal and ionized atmosphere, 14166
 Loran-C, D phase corrections over irregular, inhomogeneous terrain, simplified computer methods, 12570
 mutual impedance of loop antennas over finitely conducting ground, 15674
 John Day, Ore.:
 flood plain information, 15655
 floods, how to avoid damage, 15659
 John Day Country, geologic setting, 12771
 John Day Dam:
 Columbia River, Ore. and Wash., fish ladders, hydraulic model investigations, 5569
 fish passage report, 14148
 John F. Kennedy Center for Performing Arts:
 act, amend—
 hearings, 10804, 12323
 reports, 10727, 10736, 12273
 additional funds authorization—
 hearings, 10804, 12323
 reports, 10727, 10736, 12273
 John F. Kennedy National Historic Site:
 dedication (remarks), 9953
 general information, 10206
 John F. Kennedy Space Center, ground wind characteristics, 16134
 John Muir National Historical Site, general information, 2319
 John's disease, *see* Paratuberculosis in animals.
 Johns, Thomas L., public school finance programs, 1968-69, States and outlying areas, 6897
 Johnson, Alice M., small fry smiles, guide for teaching dental health in community care programs, 14696
 Johnson, Charles C. jr.:
 addresses, etc.—
 Nov. 24, 1968, 2411
 Mar. 4, 1969, 10331
 Mar. 24, 1969, 13343
 Mar. 27, 1969, 10329
 Apr. 2, 1969, 13371A
 Apr. 12, 1969, 10302
 Apr. 23, 1969, 10330
 May 1, 1969, 10328
 May 5, 1969, 10307
 May 25, 1969, 11627, 16348
 May 26, 1969, 11634
 May 31, 1969, 13365
 June 3, 1969, 13364

Johnson, Charles C., jr.—Continued
 addresses, etc.—continued
 June 4, 1969, 13366, 16364
 June 23, 1969, 13367
 June 27, 1969, 16337
 Sept. 4, 1969, 16368
 Sept. 15, 1969, 17353
 Johnson, Claudia A., tributes to, in Congress of United States, 5390
 Johnson, Harry T., advanced high-speed fuel pumps for small gas turbine engines, 10555
 Johnson, James E., nomination, hearing, 4095A
 Johnson, Jimmie H., Step test of motivation to excel, 14518
 Johnson, Laverne C., predicting academic performance of Navy hospital corpsmen, 16060
 Johnson, Lyndon B., public papers of the President, 1883-84
see also President of United States.
 Johnson, Mrs. Lyndon B., *see* Johnson, Claudia A.
 Johnson, M. V., annual peak discharges from small drainage areas in Montana through Sept. 1968, 9882
 Johnson, P. E., evaluation of improved fire resistant glove materials for gloveboxes, 13720
 Johnson, Philip L., evaluation of forest canopies by photography, 1576
 Johnson, R. L.:
 fish ladders for John Day Dam, Columbia River, Ore. and Wash., 5569
 thinning improves growth in stagnated sweetgum stands, 8300
 Johnson, Richard L., compliance, enforcement and reporting in 1967 under labor-management reporting and disclosure act, 2100
 Johnson, Robert C.:
 mineral industry of South Carolina, 967, 17190
 real-gas effects in critical flow thru nozzles and thermodynamic properties of nitrogen and helium, 4695
 Johnson, Robert L., shaft face seal with self-acting lift augmentation for advanced gas turbine engines, 7303
 Johnson, Ross B., Pecos National Monument, N. Mex., its geologic setting, 9887
 Johnson, Thys B., improving returns for mine products through use of operations research techniques, 5956
 Johnson, Thomas A., Army logistician, 15033
 Johnson, U. Alexis, nomination, hearings, 4081
 Johnson, W. M., effect of photoperiod at low light intensities on growth of 4 sedges, 9854
 Johnson, Wilfrid E.:
 remarks—
 June 9, 1968, 10576
 Nov. 22, 1968, 205
 May 7, 1969, 9084
 Johnson County, Ark.:
 Coal Hill, Hartman, and Clarksville quadrangles, geology, 5717
 community profile, 15571
 Scranton and New Blaine quadrangles, geology, 4363
 Johnson Creek:
 flood plain information, 12462
 floods in Arlington and Grand Prairie, Tex., how to avoid damages, 12533
 Johnston, Edward E., nomination, hearing, 14042
 Johnston, James R., oxidation and thermal fatigue cracking of nickel- and cobalt-base alloys in high velocity gas stream, 14624
 Johnston, Richard H., U.S. Geological Survey tracer study Amargosa Desert, Nye County, Nev., exploratory drilling, tracer well construction and testing, and preliminary findings, 14360

INDEX 1969

- Johnston Atoll, benthic marine algae, 8851
 JOIDES, *see* Joint Oceanographic Institutions' Deep Earth Sampling Program.
 Joining ceramics and graphite to other materials, 2212
 Joining refractory metal compounds by hot pressing, 4646
 Joint Chiefs of Staff
 chairman—
 reappointment for additional term of 1 year, authorize, hearing, 15417
 reappointment of Earle G. Wheeler—
 law, 10681
 reports, 7932, 8044
 Joint Commission on Coinage, *see* Coinage
 Joint Commission.
 Joint economic report, 6700
 Joint financial management improvement program, annual report, 4337
 Joint funding simplification, 16819
 Joint Oceanographic Institutions' Deep Earth Sampling Program, organic extracts from JOIDES cores off northeastern Florida, 12779
 Joint Publications Research Service, JPRS series, 833-869, 2049-97, 2681-82, 2776-83, 2800, 2957, 2970, 3446-49, 3505-24, 3553-68, 3573-74, 4433-53, 5809-76, 7125-60, 8495-8527, 11316-329, 12876-957, 15898-991, 17125-126
 Joint United States Military Advisory Group, Philippine citizen employees, social security coverage, agreement, 10419
 Joins:
 equipotential space-suit design concept and application to space-suit elbow joint, 10137
 flare angle measured with ball gage, 7248
 joint packing, classification definitions, 11581
 joints and cutouts, application of micro-mechanics, 9059
 moisture content of glulam timbers in Pacific Northwest, 8283
 welded, design, military standard, 12362
 welded-joint designs, armored-tank type, military standard, 6838
 wood, stress-strain behavior of films of four adhesives, used with, 1911
 Jøkerst, R. W., long term durability of laboratory-made Douglas-fir flakeboard, 1912
 Joliet, Ill., self-directive dramatization project, elementary program in compensatory education, 6875
 Jolly, Janice L., mercury and other trace elements in sphalerite and wallrocks from central Kentucky, Tennessee, and Appalachian zinc districts, 1957
 Joncas, Basia, or heirs, relief, 9393
 Joncas, James, or heirs, relief, 9393
 Joncas, Louis, or heirs, relief, 9393
 Jones, Charles L., evaporite geology of Fifth ore zone, Carlsbad district, southeastern New Mexico, 730
 Jones, D. L., summary of cretaceous stratigraphy in part of McCarthy quadrangle, Alaska, 11231
 Jones, Donald R., nation's psychiatrists, 11625
 Jones, Dorothy M., career development, selected references, 14379
 Jones, Douglas N., subregional economic analysis of Alaska, 14199
 Jones, Edith A., dietetic manual for metabolic kitchen units, 14686
 Jones, George W. jr., aerodynamic forces on stationary and oscillating, circular cylinder at high Reynolds numbers, 4756
 Jones, J. Earl, admittance of parallel-plate aperture illuminating displaced dielectric-dielectric boundary, 6004
 Jones, J. W., probabilities of obtaining uniform planting depths in soils containing cotton plant residue, 11790
 Jones, James H., processing of digital data logger STD tapes at Scripps Institute of Oceanography and Bureau of Commercial Fisheries, La Jolla, Calif., 13823
 Jones, John W., visually handicapped child at home and school, 6903
 Jones, Mildred V., supplement for 1968 to wool statistics and related data, 1920-64, 7615
 Jones, Owen W., mineral industry of Louisiana, 2150
 Jones, Paul R.:
 computer usage for evaluation of design parameters and cost of heat exchangers, 4620, 11281
 Jones, Robert A., use of tetrafluoromethane to simulate real-gas effects on hypersonic aerodynamics of blunt vehicles, 11499
 Jones, Robert S.:
 gold in igneous, sedimentary and metamorphic rocks, 5709
 gold in meteorites and in earth's crust, 741
 gold in minerals and composition of native gold, 5710
 Jones, Reuben L., analytical study of lunar surface shape and size from Lunar Orbiter mission 1 photographs, 11465
 Jones, William B., advances in ionospheric mapping by numerical methods, 11025
 Jones, William R., lubrication with some polyphenyl ethers and superrefined mineral oils in 600°F (361°C) inerted vane pump loop, 7273
 Jones family and their clothing money, 980
 Joo Chol Sung, *see* Choi, Sung Joo.
 Joo, James, *see* Pence, Rodric S.
 Jordan, C. A., container effects in cushioned packages, urethane foam corner pads, 17037
 Jordan, John W.:
 accurate strapdown direction cosine algorithm 16160
 direction cosine computational error, 8654
 Jordan, P. R., summary and analysis of sediment records in relation to St. Louis harbor sedimentation problem, 12789
 Jordan:
 agricultural commodities, agreement, 11719
 economic trends and their implications for United States, 12850
 foreign trade regulations, 7804
 Jørgensen, J. R., root growth of direct-seeded southern pine seedlings, 8297
 Jørgenson, Sherrell C., length relations of some marine fishes from coastal Georgia, 5304
 Joseph, Phillip J., feasibility of detecting impending fatigue failure in metals by observation of surface chemical and physical phenomena, 11932
 Jost Van Dyke, trees, description, etc., list, 5766
 Joubiniteuthidae, family, Cephalopoda of North Atlantic, monograph, 13427
 Journal of microbiology, epidemiology, and immunobiology, USSR (periodical), translations, 11327, 12878
 Journalists, 3 & 2, Navy training course, 7376
 Journals:
 Antarctic journal of United States, 2593
 civil service, 2660
 Federal Home Loan Bank Board, 3021
 House of Representatives, 90th Cong., 2d sess., 5318
 JAG journal, 3015
 journal of research, National Bureau of Standards, 3024-26
 Library of Congress quarterly, 3355
 National Cancer Institute, 3022
 Navy civilian manpower management, 3023
 Prologue, journal of National Archives, 10171

Journals—Continued
Senate, 90th Cong., 2d sess., 4007
Supreme Court, 3486
see also Medical journals—Periodicals.
Journals (machinery), *see* Bearings (machinery).
Journeymen, printing crafts, examination announcement, 6522
Joyce, Bruce R., teacher-innovator, program to prepare teachers, 5557
Joyce, R. S., feasibility of granular, activated-carbon adsorption for waste-water renovation, 4879
JPRS series, 833-869, 2049-97, 2681-82, 2776-83, 2800, 2957, 2970, 3446-49, 3505-24, 3553-68, 3573-74, 4433-53, 5809-76, 7125-60, 8495-8527, 11316-329, 12876-957, 15898-991, 17125-136
Juab County, Utah, gold-bearing jasperoid in Drum Mountains, 9893
Judge Advocate General, Air Force: activities, manual, 3683, 6410, 9002
law review, 3016
report, 5475
Judge Advocate General, Army: legal service, pamphlets, 3027
report, 5475
Judge Advocate General, Navy: JAG journal, 3015
report, 5475
Judge Advocates General of Armed Forces, boards of review, court-martial reports, holdings and decisions, 9513
Judges:
circuit, nomination of Roger Robb, hearing, 12309
district, additional, appoint--hearings, 12308
report, 9441
District of Columbia, retirement act of 1964, amend survivor annuity provisions, reports, 14010, 16802
Federal--
retirement benefits after 20 years service regardless of age, report, 16851
temporary assignments, operation of procedures, hearings, 492
judicial reform act, hearings, 488
military, guide, Army pamphlet, 10546
Judgment (logic):
certitude judgments in operational environment, 6448
speeded practical judgment test, situational leadership measure, factor analysis, 6449
Judgments *see* Claims—*also* names of courts, etc., rendering judgments—*also* special subjects.
Judicial administration, *see* Justice Department.
Judicial Center, *see* Federal Judicial Center.
Judicial Conference of United States: proceedings--
departmental editions, 3614, 5011, 14970
document editions, 3964, 15222
Judicial courts, *see* Courts of United States.
Judicial Disabilities and Tenure Commission, establish, hearings, 488
Judicial, Executive, and Legislative Salaries Commission, *see* Executive, Legislative, and Judicial Salaries Commission.
Judicial procedure, *see* Civil procedure.
Judicial reform act, hearings, 488
Judicial review, ICC orders, hearing, 404
Judiciary, *see* Courts of United States—Justice Department.
Judiciary Committee, House:
activities, summary, 16821
calendar, 3045
committee print, 16821
hearings, 405-406, 1704, 6722-23, 2234
investigations and studies--
authorization, report, 5350
expenses, report, 6671

Judiciary Committee, House—Continued
reports, 6589-92, 6594, 6600, 6603-42, 6661, 6681-82, 7863-76, 7935-37, 9259-84, 9286-88, 10697-710, 12155, 13866-906, 15227, 15233, 16749-767, 16769, 16848
Judiciary Committee, Senate:
calendar, 3062
committee prints, 1741, 8078, 9476, 10908, 15469
hearings, 482-492, 4087-90, 5453-55, 5457, 6794-96, 8079-80, 9474-75, 9477-78, 10907, 10909-910, 12306-309, 14047-51, 15464-468, 16888-889
investigations and studies--
administrative practice and procedure in Federal agencies, authorization, reports, 4057, 6752
antitrust and monopoly activities, 1968, report, 12272
antitrust and monopoly laws, administration, authorization, report, 4058
constitutional amendments, authorization, reports, 5409
constitutional rights, authorization, report, 5410
constitutional separation of powers between executive, judicial, and legislative branches of Govt., authorization, report, 5411
criminal law and procedures authorization, report, 4059
Federal charters, holidays, and celebrations, authorization, report, 5412
Federal judicial system--
authorization, report, 4060
report on findings, 9407
immigration and naturalization, authorization, report, 4061
internal security laws, etc., administration, authorization, report, 5413
juvenile delinquency, authorization, Senate, report, 4062
national penitentiaries, authorization, report, 4063
Patent Office administration and patent statutes, authorization, report, 5414
refugees and escapees, authorization, report, 4064
revision and codification of U.S. statutes, authorization, reports, 4065, 12271
reports, 450, 452, 4012-45, 6738-50, 7999-8017, 8036-43, 9386-93, 9395-9403, 9407, 9441, 10825-841, 10863, 10865, 12248-249, 12262, 12266-267, 12271-272, 13950-971, 13976-988, 15367, 15373, 15385, 16838-846, 16849-851, 16854
Judiciary Square, Washington, D.C., park history, 8726
Judy, R. W., Jr., characterization of fracture toughness of 5Ni-Cr-Mo-V steel by Charpy V-notch and dynamic tear tests, 13292
fracture toughness characterization procedures and interpretations, to fracture-safe design for structural aluminum alloys, 11568
stress-corrosion cracking characterization procedures and interpretations to failure-safe use of titanium alloys, 11571
Julian, Glenn M., excited states of barium 136 and barium 134, 1139
Junction boxes, Federal item identification guide, 4129, 8124, 14086
Jungle warfare, yellow lenses in Air Force operations, 3701
Jungles, jungle environment, fungus-inhibitive coatings in, 10263
Junior colleges:
community junior college facilities, guide for planning, 8170

Junior colleges—Continued

higher education, basic student charges, tuition, and fees, for board and room, 4175

job opportunities that may be open to applicants, junior college education usually required, 4609

teachers of science, engineering, and technology, 1967, experience and employment characteristics, 6098

Junior Federal assistant, examination announcement, 7781, 10626, 15144

Junior high school students, *see* Students.

Junior high schools, summer institutes, New York City, secondary program in compensatory education, 6900

Junkins, Bobby G., regression analysis procedures for evaluation of tracking system measurement errors, 2225

Jupiter (planet) :

Asteroid/Jupiter missions, space flight investigations, opportunities, for participation, 1150

direct trajectories to Jupiter, Saturn, etc., general discussion, contour charts, 13058

swinging missions to—
nonspecific locations in interplanetary space, 11477

Saturn, Uranus, etc., general discussion, contour charts, etc., planetary flight handbook, 11426

Xth satellite, application of Hansen's method, 2267

Jurassic period, Upper Jurassic, Sundance formation in north-central Colorado, 7045

Jurisdiction:

cede to Montana concurrent jurisdiction with United States over real property comprising Veterans Administration Center, Fort Harrison, Mont.—
law, 15194

report, 5354, 10879
drawing jurisdictional lines in mediation, 11354

jurisdictional separations, FCC rules and regulations, 9749

see also Criminal jurisdiction.

Jury, W. W., soil survey, Case County, Iowa, 8866

JUSMAG, *see* Joint United States Military Advisory Group.

Justice:

criminal—
criminal justice act in Federal district courts, study, 10908
expenditure and employment for large governmental units, 6507, 9165
national program of research, development, test, and evaluation, 875
in time of crisis, administration in District of Columbia during and after civil disorders of Apr. 1968 and in riot-related prosecutions, 13322

Justice Department:

annual report, 4455
appropriations, 1970—
additional, 7850
hearings, 10767, 16878
report, 12192

Assistant Attorney General—

Antitrust Division, nomination of Richard W. McLaren, hearing, 5455

Civil Division, nomination of William D. Ruckelshaus, hearing, 5455

Civil Rights Division, nomination of Jerris Leonard, hearing, 5455

Criminal Division, nomination of Will Wilson, 5455

Legal Counsel, nomination of William H. Rehnquist, hearing, 5455

Tax Division, nomination of Johnnie M. Walters, hearing, 5455

Attorney General-designate, nomination of John N. Mitchell, hearing, 4090

Justice Department—Continued

Attorney General, foreign agents registration act, administration, reports, 2099, 14434

Deputy Attorney General, nomination of Richard G. Kleindienst, hearing, 5455

Judicial administration, code of Federal regulations, 6960

letters sent, pamphlet to accompany, microcopy, instructions to U.S. attorneys and marshals, 8668

letters to executive officers and Members of Congress, pamphlet accompanying microcopy, 2277

opinions of Attorney General, 2098, 3226, 4456, 5879, 7161, 11330, 14432

Tax Division, opportunities for attorneys, 15993

Justices, *see* Judges.

Juvenile courts:

legal bibliography, 9172

statistics, 7757

Juvenile delinquency:

crime and delinquency abstracts (periodical), 2718

delinquency today, guide for community action, 17377

District of Columbia, adoption of interstate compact on juveniles, reports, 12182, 15383

investigation—

authorization, report, 4062

hearings, 5457

prevention and control act of 1968, America's best hope, 16406

prevention, bibliography, 1631

Juvenile Delinquency and Youth Development Office, publications and films, 10365

Juveniles, *see* Youth.

K

Kaczmariski, Adela, relief, 6634, 10841, 13837

Kahbaum, William M., Jr., rendezvous and station-keeping simulator with fly-around capability and virtual-image viewing, 7290

Kahn, Gerald, statistics of local public school systems, 8175

Kahuku area, Hawaii, water, 12797

Kail, L. T.:

requirements study for biotechnology laboratory for manned earth orbiting missions—

results, recommendations, and requirements, 14580

summary of individual experiments requirements, 14581

Kaiparowits region, southeastern, Kane County, Utah, new members of upper cretaceous Straight Cliffs Formations, 5705

Kaiser, Robert, study of ferromagnetic liquid 14579

Kakehl, Hirotake, counting characteristics of medium-level whole-body counter, 15076

Kaill, F., parametric analysis of microwave and laser systems for communication and tracking, summary, 8657

Kallander, John W., NELIAC-N, the NAREC version of NELIAC programming language, 13273

Kallio, Aili, relief, 7868, 9398, 12097

Kalman filters, suboptimal approximation, 7266

Kalmbach, E. R., homes for birds, 8410

Kamel, Adel M.:

shock pressures caused by waves breaking against coastal structures, 1826

water wave transmission through and reflection by previous coastal structures, hydraulic laboratory investigation, 16968

Kamp, Carl O., Jr., nomination, hearing, 9450

Kampe, Ronald E., Republic of South Africa's agricultural trade, projections to 1970 and 1975, 572

- Kamper, R. A., superconduction thin films, 1014
- Kane County, Utah, new members of upper cretaceous Straight Cliffs, Formation in southeastern Kaiparowits Region, 5705
- Kanikou National Forest, Priest Lake, recreation area, 14268
- Kanluka, R. P., agricultural research, 2565
- Kansas:
- Agricultural Stabilization and Conservation Service—
 - annual reports and statistical summaries, 11806-807
 - congressional district summary, 13566
 - basins project, interim reports, 1365, 14844
 - census of business, 1967, retail trade, area statistics, 13739
 - climatological data, 2662
 - electric rate book, 644, 16996
 - Federal outlays, report of Federal Government's Impact by State and county, 9549, 9599
 - Irrigation council, annual meeting, proceedings, 4908, 10348
 - mineral industry, minerals yearbook chapter, 954
 - National Park Service Kansas Governor's book, 13195
 - precipitation data, hourly, 2962
 - uranium reconnaissance, preliminary, 13710
 - Walnut and Whitewater Rivers, flood plain information, 9699
 - water for future use, bibliography and inventory of available data, 1365
 - water resources data, 9912
 - woodlands, 4332
- Kansas City, Kans.:
- area wage survey, 4604
 - Metropolitan Interstate Air Quality Control Region, report for consultation, 7426
- Kansas City, Mo.:
- accounts and deposits in all commercial banks in district, summary, 9763
 - area wage survey, 4604
 - community action program, effectiveness and administration, GAO report, 11209
 - Metropolitan Interstate Air Quality Control Region, report for consultation, 7426
 - motor carrier accident, 8585
 - Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14312
- Kansas, Oklahoma and Gulf Ry., motor carrier accident, 4656
- Kapingamarangi Atoll, algae, checklist of cyanophyta, chlorophyta and phaeophyta, 8851
- Kaplan, Margorie N., estimates of OER distributions by Air Force officers, 11890
- Kaplan, Paul:
- development of mathematical models for describing ship structural response in waves, 6223
 - investigation of utility of computer simulation to predict ship structural response in waves, 13409
- Kaplar, Chester W., laboratory determination of dynamic moduli of frozen solids and of ice, 10541
- Kara Sea, oceanographic observations, 16697
- Karadimos, George A., relief, 16839
- Karel, Marcus, nonenzymatic browning in model systems containing sucrose, 92
- Karitas, James J., packaging produce in trays at central warehouse, 3646
- Karlik, John R., linking reserve creation and development assistance, 6566
- Karp, Sherman, communication efficiency of quantum systems, 16203
- Karre, L. E., development and processing of pyrrone polymers, 10072
- Karyotensis, mitotic synchronization of L-strain fibroblasts with 5-aminouracil as determined by time-lapse cinephotography, 4744
- Kasdon, David L., international family planning, 1966-68, bibliography, 16350
- Kasenchak, Peter, oral acidogenic bacteria in Antarctic, 12998
- Kaskaskia River, navigation project, hydraulic model investigation, 5573
- Kasnyku Lake, geology of proposed power-sites, 9884
- Kassalow, Everett M., role of social security in economic development, 4940
- Kastmer, Jacob, natural radiation environment, 7721
- Katell, Sidney, bibliography of investment and operating costs for chemical and petroleum plants, 13011
- Katsanis, Theodore:
- FORTRAN program for calculating transonic velocities on blade-to-blade stream surface of turbomachine, 16176
 - FORTRAN program for calculating velocities and streamlines on blade-to-blade stream surface of a tandem blade turbomachine, 8611
 - FORTRAN program for calculating velocities in magnified region on blade-to-blade stream surface of turbomachine, 8616
- Katsuwonus pelamis, *see* Tuna fish.
- Kattegat:
- lights and fog signals, list, change, 2336, 8753, 17303
 - sailing directions, change, 1241
- Katz, Fred H.:
- adrenal corticosteroids in submaxillary fluid, 11906
 - parotid fluid cortisol and cortisone, 16573
- Katz, Jacob E.:
- addresses—
 - Oct. 21, 1968, 213
 - May 13, 1969, 13728
 - Oct. 11, 1969, 16643
- Katzman, Robert, studies of micellar formation by naturally occurring lipids and properties of reconstituted lipid membranes, 796
- Kauffman, Nelson M., Pocono Mountains of Pennsylvania, climatic summaries of resort areas, 5576
- Kaufman, Albert:
- analytical study of flow reduction due to oxidation of wire-form porous sheet for transpiration cooled turbine blades, 4729
 - steady-state stress relaxation analysis of turbine blade cooling designs, 13089
- Kaufman, Richard F., industrialized housing, 7835
- Kaufman thrusters, *see* Ion thrusters.
- Kavanagh, James K., communicating by language, reading process, proceedings of conference on communication by language, 1188
- Kay, Evelyn R., summaries of manpower surveys and reports for developing countries, 1958-68, 14459
- Kay, Joanne B., foreign trade regulations of Nigeria, 7803
- Kaye, Melvin A., relief, 10700
- Keater, Lloyd S., jr., flight measurement of optical radiation from shock-heated air by using a Trailblazer II vehicle, 2242
- Kealy, C. D., design of dams for mill tailings, 10050
- Kearney, N. S., jr., sweetgum seed production on soils in central Mississippi, 1929
- Kearns, Henry, nomination, hearing, 6778
- Keating, Kenneth B., nomination, hearing, 8065
- Keep a good thing going, 16386
- Keetch, John J., drought index for forest fire control, 8310

INDEX 1969

- Keim, Kathleen :
foreign trade regulations of—
Israel, 7804, 15168
Jordan, 7804
- Kelth, George H. :
interactions of titanium and molybdenum
additions with interstitial impurities in
vanadium, 10063
some strain-aging effects in electrorefined
vanadium, 4643
- Keller, George V., electrical resistivity
measurements, Midway and Kure Atolls,
14353
- Keller, Robert F., nomination, hearing,
15457
- Keller, Rudolf, properties of nonaqueous
electrolytes, 14590
- Keller, Helen, Memorial Week, *see* Helen
Keller Memorial Week.
- Kelley, Charles R., adaptive techniques for
synthetic flight training systems, 2348
- Kelley, Henry L., flying quality factors currently
limiting helicopter nap-of-earth
maneuverability as identified by flight investigation,
2240
- Kelley, John E., joining refractory metal
compounds by hot pressing, 4646
- Kelley, Robert T., nomination, hearing, 5428
- Kellogg, Remington, cetothere skeletons from
Miocene Choptank formation of Maryland
and Virginia, 8710
- Kelly, C. B., sanitary control of shellfish in
Korea, 8815
- Kelly, D. H., research study of fundus
tracker for experiments in stabilized
vision, 997
- Kelly, Elizabeth C., FDA clinical experience
abstracts, 2824
- Kelly, James E., selected examination findings
related to periodontal disease among
adults, United States, 16377
- Kelly, M. G., study of pretesting effects on
electroexplosive devices, 1022
- Kelly, Paul A., relief, 13881
- Kelsey, Theodore L., soil survey, Belknap,
County, N.H., 6240
- Kenaf, effects of age, plant spacing, and
other variables on growth, etc., 10502
- Kenahan, Charles B., composition and
characteristics of municipal incinerator
residues, 2171
- Kenai, Alaska, peninsula, integrated live-
stock industry possibilities, 8830
- Kendall, John S., initial radio-frequency gas
heating experiments to simulate thermal
environment in nuclear light bulb reactor,
8591
- Kendall, Nicholas A., mineral industry of
Mississippi, 959
- Kennedy, David M. :
addresses, etc.—
Jan. 8, 1969, 2528
Feb. 27, 1969, 6329
Mar. 14, 1969, 6330
Apr. 8, 1969, 8922
Apr. 11, 1969, 8921
Apr. 15, 1969, 10439
Apr. 22, 1969, 10441
May 7, 1969, 8920
June 7, 1969, 10437
Aug. 14, 1969, 14951
Sept. 4, 1969, 14029
Oct. 7, 1969, 17427
Oct. 17, 1969, 17426
nomination, hearing, 4076
- Kennedy, Marjorie D., confectionery manu-
facturers' sales & distribution, 10588
- Kennedy, Patrick C., major insect pests in
North Dakota shelterbelts, abundance and
distribution by climate and host age, 14289
- Kennedy, Robert F., memorial services, 3932
- Kennedy, Robert S., sixty-minute vigilance
task with 100 scoreable responses, 14501
- Kennedy National Historic Site, John
Fitzgerald, *see* John F. Kennedy National
Historic Site.
- Kennedy round, *see* General agreement on
tariffs and trades.
- Kennedy Space Center, *see* John F. Kennedy
Space Center.
- Kennewick division, *see* Yakima project.
- Kent, T. S., TRIC Agent urethritis, report
of serological fluorescent antibody and
associated findings, 14517
- Kent County, Del., community profile, 12400
- Kent County, Mich., work experience and
training, administration and effectiveness
of project, GAO report, 7024
- Kent State University, Students for a
Democratic Society, activities investigation,
hearings, 13933
- Kentucky :
Agricultural Stabilization and Conserva-
tion Service—
annual report, 8955
annual summary by congressional dis-
tricts, 10469
census of business, 1967—
retail trade, 13740
selected services, 16647
central, zinc district, mercury and other
trace elements in sphalerite and wall-
rock ore deposits, 1957
climatological data, 2662
coal mines, waste disposal costs, 7208
dealers in trout and pondfishes, list, 10391
decay in upland oak stands, 15773
development of water resources by Army
Corps of Engineers, 11007
east, communication and mountain devel-
opment, summary report of studies,
9531
electric rate book, 15722
Federal outlays, report of Federal Gov-
ernment's impact by State and county,
9600, 15613
mineral industry, minerals yearbook chap-
ter, 2148
potential development of central Appa-
lachia, preliminary analysis, 13650
precipitation data, hourly, 2962
uranium reconnaissance, preliminary,
13709
water resources data, 8371-72
- Kenya :
capsule facts for Armed Forces, 129
mineral industry, minerals yearbook chap-
ter, 2149
- Kepler's laws, *see* Orbits.
- Keratitits, effects of ultraviolet radiation on
the eye, 10530
- Kerley, Roger H., mariners weather log
(periodical), 3102
- Kernan, William, J., accelerators, 7720
- Kerosene stoves, *see* Stoves.
- Kerr, Arnold D., on plates sealing an incom-
pressible liquid, 3746
- Kerr, David M., study of whole saliva and
dental calculus in submariners, 11374
- Kerrville, Tex., climatic summary of resort
areas, 11021
- Kessler, Kenneth J., basal stem canker of
sugar maple, 17021
- Kessler, Richard S., comparison of shear
strength measurements with laboratory
vane shear and fall-cone devices, 13245
- Ketchum, R. D., jr., infrared scanning the
Arctic pack ice, 10219
- Kettle River, river mile index, 13310
- Keulegan, G. H., theories in design of
proposed Crescent City Harbor tsunami
model, 14155
- Keup, Lowell E., role of bottom-dwelling
macrofauna in water pollution investiga-
tions, 14791
- Keusch, Preston, investigation of basic
properties of irradiation polyethylene
memory materials, 16123
- Key step, program to combat drinking among
employees, 5261
- Key that unlocks the past and the future,
2129

- Key to aviation weather reports, 17439
 Key to meteorological records documentation, 617, 1839, 6922, 11030
 Key West, Fla., sound-scattering layers, some investigations, 13276
 Key word in context, *see* Indexes.
 Keyboards, keyboard arrangements, military standards, 6844
 Keyes, J. Wayne, pressures and heat transfer on 75° swept delta wing with trailing-edge flap at Mach 6 and angles of attack to 90°, 16171
 Keyfitz, I. M.:
 moisture separation or steam reheat vs. sodium reheat plant cycle technical and economic evaluation, 11962
 steam generator concept selection, 10565
 Keys, *see* Locks and keys.
 Keyserling, Mary D., high cost of sex discrimination in employment practices, 5566
 Keystone Job Corps Center for Women, Drums, Pa., effectiveness and administration, under Economic opportunity act of 1964, GAO report, 11212
 Khalafalla, Sanaa E., extraction of copper from oxides using iron and steel scrap, principles and application to pure systems, 16101
 Khalil, Hassan H.:
 repeated or continual measurements of cardiac output in squirrel monkey (*Saimiri sciureus*) by thermodilution, 14496
 simple method for percutaneous introduction of cardiac catheters, 14497
 Kidneys:
 diseases—
 control program—
 activities, 13333
 analysis, 4379
 Massachusetts Kidney Disease Planning Project report, 16353
 prevention and control, guidelines for community programs of chronic disease control, 14794
 renal diseases and hypertension, Public Health service cooperative studies, conferences, proceedings, 14800
 services, facilities and programs in U.S., 14795
 see also Artificial kidneys.
 Kidwell, Claudia B., women's bathing and swimming costume in United States, 4792
 Kier, Porter M., echinoids from Middle Eocene Lake City Formation of Georgia, 1383
 Kies, J. A., fracture mechanics as related to Neuber stress concentration factor and plastic particle, 13302
 Kilauca Volcano, October 1963 eruption, 15804
 Kilmer Job Corps Center for Men, Edison, N.J., effectiveness and administration, GAO report, 15779
 Kiln-drying, *see* Kilns.
 Kilns:
 dense kiln-dried southern pine dimension lumber, properties, 687
 rotary kiln, removal of nonferrous metals from synthetic automobile scrap on heating, 2177
 Kimbell, Charles L., mineral industry of Pakistan, 14541
 Kincaid, John F., address, Dec. 2, 1968, 310
 Kinetics:
 high-power, of two-dimensional circulating-liquid-metal-fuel reactor, 1073
 human tumor cell kinetics, 11537
 hydrate reaction, 799
 maximum rate kinetic analysis applied to enzyme assay data, 10046
 rotary kinetic fluid motors or pumps, classification definitions, 13312
 scandium-45 at 41 MeV, study of (a,t) reaction on, 10134
 Kinetics—Continued
 vaporization and decomposition, of candidate re-entry blackout suppressants in low-pressure flames, 14567
 King, A. M., scintillation range noise and related phenomena in water wave profiling with microwave radar, 2349
 King, E. E., superconducting lead pressure contacts, 1263
 King, James P.:
 development of white and Norway spruce trees from several seed sources 29 years after planting, 11174
 early growth of eastern white pine seed sources in Lake States, 4308
 King, N. J., appraisal of watershed management program in Wind River basin, Wyo., 12756
 King, Philip B., tectonics of North America, discussion to accompany tectonic map of North America, 9903
 King County, Wash., ground water availability in Federal Way area, 9883
 King crabs:
 fisheries, agreement with—
 Japan, 6293
 Union of Soviet Socialist Republics, 7516
 Kingery, D. S., studies on control of respirable coal mine dust by ventilation, 17179
 Kingman, Woodward:
 addresses—
 July 30, 1969, 12806
 Aug. 1, 1969, 12807
 Oct. 14, 1969, 17078
 Kingsley, Neal P.:
 pulpwood production in Northeast, 15776
 timber resources of Vermont, 700
 Kinney, Douglas M., Poison Ridge volcanic center and related mineralization, Grand and Jackson Counties, Colo., 5706
 Kinney, Jo Ann S.:
 adaptation to homochromatic visual world, 918
 analyses of variety of visual problems encountered during naval operations at night, 8574
 induced colors seen by deuteranope, 5928
 light flashes, pupil size and visual performance, analysis of discomfort in use of electro-optical aids, 8577
 responses to underwater distortions of visual stimuli, 927
 underwater visibility of colors with artificial illumination, 7199
 Kinney, Terry B., summary of reported estimates of heritabilities and of genetic and phenotypic correlations for traits of chickens, 14986
 Kinorhyncha, Indian Ocean, Condyloderes and Sphenoderes, new Cyclorhagid genera, 13426
 Kinyon, John, report on wage developments in manufacturing, 1968, 17157
 Kirby, James G., crude petroleum and petroleum products, 936
 Kirkbride, Joe, disadvantaged young men prepare for well-paying careers in maritime fleet, etc., 4195
 Kirkby, M. J., erosion and deposition on raised beach, Montague Island, Alaska, 5718
 Kirsch, Kathleen M., Air Force Medical Service digest, 3546
 Kirschnner, F. R., soil survey, Allen County, Ind., 10381
 Kirwin National Wildlife Refuge, birds, list, 13454
 Kisatchie National Forest, general information, 12682
 Kislun, Benjamin, use of yellow lenses in Air Force operations, 3701
 Kitchens:
 Clinical Center dietetic manual for metabolic units, 14686

- Kitchens—Continued
 planning guide, 15709
 training the trainers, 12 nations represented in workshop on nutrition and kitchen improvement, 16555
- Kites, moored, Federal aviation regulations, 14186
- Klamath Forest National Wildlife Refuge, general information, 16446
- Klamath Mountains, gold distribution on sea floor, off Klamath Mountains, Calif., 1961
- Klamath River and Valley, general information, 16446
- Klassen, Elmer T., nomination, hearings, 5464
- Kleen, Roger H., atmospheric scattering from 1.15-micron laser beam and its off-axis detectable range, 1836
- Klein, Carl L.:
 nomination, hearings, 8076
 remarks, Apr. 22, 1969, 8413
- Klein, M., hydrogen-oxygen electrolytic regenerative fuel cells 10069
- Kleinindienst, Richard G., nomination, hearing, 5455
- Kleinerman, Frank, relief, 6597
- Klement, Alfred W., jr., Russian radioecology, bibliography of Soviet publications with citations of English translations and abstracts, 3808
- Klier, Eugene P., tensile properties of selected steels for use in nuclear reactor pressure vessels, 2350
- Klima, Edward F., length-weight relation and conversion of whole and headless weights of royal-red shrimp, *Hymenopneustes robustus* (Smith), 10668
- Klingberg, C. L., effect of disparity in photo scale and orientation on change detection, 13666
- Klinger, F. L.:
 mineral industry of—
 Finland, 17182
 Italy, 2147
 Sweden, 5947
- Klock, G. O., some autecological characteristics of elk sedge, 15760
- Klopp, William D.:
 mechanical properties of arc-melted tungsten-rhenium-hafnium-carbon alloys, 13123
 review of ductilizing of group via elements by rhenium and other solutes, 2254
- Klyce, Donald F.:
 mineral industry of—
 Indiana, 2144
 Michigan, 2152
- Knapp, Stanley C., intraocular dynamics of dogs exposed to near-vacuum pressures, 1549
- Kneale, J. S., cost effectiveness study on pretreatment methods for membrane desalting plants, 9967
- Kniffen, Donald A., search for gamma-rays from Crab nebula using digitized spark chamber, 8656
- Knight, Herbert A.:
 forest statistics for northwest Florida, 1969, 11193
 preview of South Carolina's timber, 1928
 South Carolina's timber, 8320
- Knight, John T., claim against U.S., 6589
- Knit goods:
 knit cloth, shipments, including interplant transfers, current industrial reports, 3855
 shipments of knit cloth, current industrial reports, 2733
 see also Sweaters—Textiles.
- Knobs:
 control, selection of, military standard, 16930
 Federal item identification guide, 15506
- Knoll, Richard H., shadow for thermal protection of cryogenic tanks in space, experimental studies, 1106
- Knots and splices, knots and knot tying, classification definitions, 4846
- Knott, J. M., sedimentation in upper Stony Creek basin, eastern flank of Coast Ranges of northern Calif., 15815
- Know your FBI, 12602
- Knowledge:
 philosophical, systematic-structural approach and specific nature of, USSR study, 2092
 software of change (address), 15176
 Knowledge into action, 13202
- Koblisch, Theodore R., emulsified fuels combustion study, 9056
- Koch, Peter, wood machining abstracts, 699
- Koch, R. C., Mossbauer spectrometry for analysis of iron compounds, 11959
- Koch, R. K., vapor pressures of liquid titanium, 2,008° to 2,379° K, and liquid platinum, 2,045° to 2,442° K, 11386
- Kocher, Wallace, survey of current debugging concepts, 14576
- Koczela, L. J., study of spaceborne multiprocessing, technical description, 1005
- Kodlak, and adjoining islands, integrated livestock industry possibilities, 8830
- Koelling, Gordon W.:
 mineral industry of—
 Brazil, 2135
 Colombia, 2138, 14539
 Venezuela, 2165
- Koelling, Melvin R., use of plastic tubing in maple sap production, 7020
- Koenig, Robert W., influence of high-turbine-inlet-temperature engines in methane-fueled SST when takeoff jet noise limits are considered, 2260
- Koerner, Albert G. A., Detroit and vicinity before 1900, annotated list of maps, 7192
- Koeser, R. L., report of 53d National Conference on Weights and Measures, 7323
- Kolar, Michael J., high-power kinetics of two-dimensional, circulating-liquid-metal-fuel reactor, 1073
- Kolpinski, Milton C.:
 applications of aerial photography and remote sensing to hydrobiological research in south Florida, 12755
 effects on mineralized artesian water on fresh-water biota of Taylor Slough, Everglades National Park, Fla., 15795
- Kolker, Myer, space geodesy altimetry study, 7234
- Kolkhozes, see Collectives.
- Kolodrubetz, Walter W., employee benefit plans, 1967, 8858
- Komar, Charles A., laboratory oil-recovery tests with ultrasonically formed emulsions, 14559
- Kommunist (periodical):
 translations, 3505
- Komsomols:
 central committee redefines functions, USSR study, 4452
 Mzhavanadze bestows honor on Rustavi komsomol, 4453
- Konchesky, J. L., influence of residence time, temperature and steam concentration on coal-steam gasification reactions, 13027
- Kong, Wan Nor, relief, 16757
- Konkle, Ward W., agricultural science review, 2566
- Koon Chew Ho, see Ho, Koon Chew.
- Koontz, Elizabeth D.:
 addresses, Apr. 14, 1969, 8938
 nomination, hearing, 5462
- Koopman, F. C., water resources appraisal of Silver City area, Grant County, N.Mex., 12790

- Kootenai Indians:**
Judgment funds, disposition—
law, 16741
reports, 14003, 15256
- Koplay, Janos B.,** field test of weighted
airman promotion system, phase 1 analysis
of promotion board component in weighted
factors system, 10512
- Korea:**
Air Force build-up, 5th Air Force report,
13619
Army supply management and stock fund
activities, GAO report, 12745
economic trends and their implications for
United States, 17114
- North—**
capsule facts for Armed Forces, 3729
mineral industry, minerals yearbook
chapter, 13017
translations, 3513
- Republic—**
agricultural commodities, agreement,
6289, 8899 10420
combat readiness of United States and
South Korean Forces, subcommittee
report, 1732
economic trends and their implications
for United States, 7113
fisheries off Alaska, development and his-
tory, 10664
labor organizations, directory, 7187
loan of vessels, extension, agreement,
6280
mineral industry of South Korea, miner-
als yearbook chapter, 16087
sanitary control of shellfish, 8815
- Korean language, basic course, 11709**
- Korean Mail (SS):**
launching ceremony (remarks), 5610
- Kornicker, Louis S.,** morphology, ontogeny,
and intraspecific variation of *Spinacopia*,
new genus of Myodocopid Ostracod (*Sar-*
sellidae), 13421
- Kortes unit, see Missouri River Basin project.**
- Koschmann, A. H.,** principal gold-producing
districts of United States, 751
- Kosmahl, H. G.,** noise in exsymmetric con-
vergent electron beams, 10131
- Kosmos, see Satellite.**
- Kost, Keith,** public health reports, 3341
- Kovachina, T. A.:**
porosity of protective films on mild steel,
7386
solubility of nickel in liquid sodium of
high oxide content, 14751
- Kovaes, Austin,** effect of solar radiation on
processed snow in engineering construc-
tion, 1577
- Kovalenko, A. D.,** design of conical shells sub-
jected to antisymmetric loadings, 13143
- Kovalik, Milan J.,** use of antifissurants in
making better coke from Sunnyside coal
from Utah, 4653
- Kovar, Mary Grace,** variations in birth
weight, legitimate live births, United
States, 6212
- Kowalsky Express Service,** motor carrier
accident, 11395
- Kraft, Ivor,** prelude to school, evaluation of
inner-city preschool program, 13778
- Krajicek, John E.,** acorn moisture content
critical for cherrybark oak germination,
4309
- Kraken (U.S.S.):**
loan, extension, agreement with Spain,
16482
- Kramer, David,** synopsis of biological data on
Pacific mackerel, 7812
- Kramer, Fritz,** acceptance testing lunar and
planetary vehicles, 2236
- Kramer, Morton,** patients in State and
county mental hospitals, 14796
- Kranc S.,** experimental investigation of mag-
netoerodynamic flow around blunt bodies,
14574
- Krape, Richard P.,** applications study of elec-
troadhesive devices, 1028
- Krascella, N. L.,** theoretical investigation of
composition and line emission character-
istics of argon-tungsten and argon-ura-
nium plasmas, 10073
- Kraus, K. A.,** desalination research at Oak
Ridge, 15862
- Krause, Orville E.,** airphoto use in resource
management, 8966
- Kreins, Earl R.,** atlas of TIROS VII monthly
maps of emitted radiation in 8-12 micron
atmospheric window over Indian Ocean
area, 10106
- Krepfin, Robert W.,** NRL SOLRAD 9 satellite
Solar Explorer B, 1968-17A, 13283
- Krickich, Joseph:**
mineral industry of—
New Jersey, 960
Ohio, 2160
- Krieghbaum, Hillier,** to improve secondary
school science and mathematics teaching,
4812
- Kristof, Frank S.,** urban housing needs
during 1980's, analysis and projection,
2402
- Krolkiewicz, M.,** design, development, fab-
rication, and testing of small and large
load-bearing pallets for CH-54 flying
crane helicopter, 1591
- Krombein, Karl V.,** life history notes on
some Egyptian solitary wasps and bees
and their associates (Hymenoptera: Acu-
leata), 13430
- Kross, Dennis A.,** study of stiffness matrices
for analysis of flat plates, 2237
- Krueger, Kenneth W.,** investigations of shingle
tow packing material for conifer seed-
lings, 692
- Krupskaya, N. K.,** tells scenes from Lenin's
last months of life, 5869
- Kruse, William H.,** ammonium nitrate en-
courages decomposition of ponderosa pine
needles under laboratory conditions 9855
- Krute, Aaron,** use of hospital services under
medicare, length of stay of patients dis-
charged from short-stay hospitals, 4935
- Kryptonate hydrogen detection system,** final
report, 5164
- Ku, Harry H.,** precision measurement and
calibration, selected papers on statistical
concepts and procedures, 6046
- Ku, P. M.,** interdisciplinary approach to
friction and wear, 11428
- Ku Klux Klan,** organizations, investigation,
hearings, index, 424
- Kugel, Robert B.,** changing patterns in res-
idential services for mentally retarded, 4857
- Kuhn, Gary D.,** vortex shedding from bodies
of revolution undergoing coning motion,
17208
- Kullk, R.A.,** effect of free stream turbulence
on coaxial mixing, 10081
- Kulin, Gershon,** hydraulic research in United
States, 11522
- Kulke, Bernhard,** design considerations for
cyclotron resonance oscillators, 11463
- Kumal, Motol:**
attenuation and backscattering of infrared
radiation by ice fog and water fog,
11932
fog modification studies on Greenland ice
cap, 11931
formation and reduction of ice fog, 11929
microspherules in snow and ice-fog crys-
tals, 11930
- Kunce, Joeck,** relief, 10701
- Kunde, Virgil G.,** theoretical molecular line
absorption of CO in late spectral type at-
mospheres, 2222
- Kunkle, John S.,** compressed gas handbook,
10098
- Kunzig, Robert L.,** nomination, hearing, 6785
- Kure Atoll,** electrical resistivity measure-
ments, 14353

Kurtenacker, R. S.:
Appalachian hardwoods for pallets, effect of fabrication variables and lumber characteristics on performance, 17038
performance of nailed cleats in blocking and bracing applications, 1913

Kurtz, Albert K., annotated bibliography of Human Factors Laboratory reports, 7378

Kurtzig, Michael, Israel's agricultural economy in brief, 12416

Kurzus, Shelby C., vaporization and decomposition kinetics of candidate re-entry blackout suppressants in low-pressure flames, 14567

Kushman, L. J., sweet potato storage, 5028

Kusler, David J., mineral industry of Virginia, 5951

Kuwait:
background notes, 4961
economic trends and their implications for United States, 2038
mineral industry, minerals yearbook chapter, Kuwait-Saudi Arabia Neutral Zone, 17184

Kwajalein Missile Range, construction of test facilities, appropriations, authorize, reports, 12258, 16772

Kwiat, Eugene V., effects of gamma radiation and chemical treatment on quality of stored potatoes for fresh market and processing usage, 5148

KWIC, *see* Indexes.

Kyanite:
and related minerals, minerals yearbook chapter, 13012, 14532
partially melted kyanite eclogite from Roberts Victor Mine, South Africa, 7454

L

L series, 263, 7760, 10617-619, 12028-34, 13781-782, 15131-132

Labels:
catalog of copyright entries, 518, 5472, 15488
cigarette labeling and advertising act, amend, hearings, 9356-59
reports, 10717, 10725
fair packaging and labeling act—enforcement regulations, 1902
food packaging and labeling regulations, synopsis, 5658
laws, compilation, 5458
meat & poultry labeled for you, 16542
Rx, basis for all prescribing information, 5661
trade and tariff information, summaries, 1461
truth in seed labeling, 16552
your money and clothing labels, 8983

Labor:
adequacy of services for older workers, hearings, 455
American history, 1778-1968, chronology of important events, 8534
Army-labor program for second careerists, 1818
code of Federal regulations, 6961, 9810-11
conditions in—
Australia, 7188
New Zealand, 7189
Turkey, 14463
construction laborers, employment outlook, 4515
Federal-aid airport program, labor requirements in contracts, 15691
geographic mobility in United States, 7459
helping workers locate jobs following plant shutdown, 5563
international health, education, and labor programs, hearings, 495A
International labor (periodical), 3000

Labor—Continued
international migration of talent and skills, hearings, 487
job qualification system for trades and labor occupations, 12050
labor developments abroad (periodical), 3030
labor force—
monthly report, 2791
work force adjustments in private industry, their implications for manpower policy, 878
labor, manpower, and price statistics program for statisticians and economists of other countries, 8557
labor statistics 1969, handbook, 14460
laborer, job grading standard, civil service, 286
length-of-service and taxable compensation of railroad employees, 1967, statistical tables, 13390
man-hour output indexes—
motor vehicles and equipment industry, 5900
radio and television receiving sets industry, 889
selected industries, 5899
market and the Puerto Rican, facts, 14479
middle-aged and older workers full employment act of 1968, bill text and section-by-section analysis, 497
mobility, selected references, 8536
monthly labor review, 3137
reprints, 898, 2122-24, 5910-12, 8559-63, 11351-354, 12975-977, 14464, 17157
morbidity with temporary disability among workers and employees in different branches of industry, assessment and comparison of data, USSR study, 11325
offshore, agreement with Philippines, 6291
older workers, manpower programs for senior citizens, 7165
problems (remarks), 16003
Public Health Service-labor seminar on consumer health services, papers, 6198
Puerto Rican worker, labor force experience, 12980
reemployment experiences of defense workers, statistical analysis of Boeing, Martin, and Republic layoffs, 3733
skilled workers, job grading standard, civil service, trades helper jobs, 3883
sources of information on labor in Japan, 4471
State minimum wage legislation to help all workers especially working poor, 11784
statistics for national decision making (address), 14438
textile and apparel industries, 16025
today's students, tomorrow's workers (remarks), 11546
unfair labor practices, new and novel remedies (address), 2310
USSR, translations, 3522
utilization and operating practices in commercial cafeterias, 1510
work and workers, some aspects of changing patterns in urban environment, 14470
work stoppages, 3607
worker certification program under Immigration and nationality act, 10012
workers, handicapped, in sheltered workshops, special minimum wages, 1489
workers under social security, 1960, annual and work history statistics, 2461
see also Child labor—Employment.—Farm labor — Manpower — Occupations. Wages—Women—*also* headings beginning Labor.

Labor and Education Committee, House report, 12187

Labor and Public Welfare Committee, Senate:
 calendar, 3063
 committee prints, 493-495, 497, 1742-43, 4091-92, 4094, 5459, 6798, 8086, 9479, 10914, 14052, 16894
 hearings, 495A, 498-499, 4093, 4095, 5460-62, 6797, 8081, 8083-85, 9480-86, 10911-913, 10915-916, 12310-315, 14053-57, 15470-476, 6890-893
 history, print as Senate document, report, 441
 investigations and studies—
 authorization, report, 5415
 education, etc., of Indian children, authorization—
 hearings, 4093
 report, 5416
 joint committee print, 5458
 reports, 5422, 8045, 9425-26, 10879-880, 12261, 12269, 15360, 15368, 15390, 16856, 16866-869
Labor arbitration, Federal employee unit arbitration, 8533
Labor Day, how it came about, what it means, 14437
Labor Department:
 Administrator of Wage and Hour Division, nomination of Moran, Robert D., hearing, 8085
 annual report, 8531
 appropriations, 1970—
 hearings, 9330, 10766
 report, 12197
 Assistant Secretary, nomination of—
 Fletcher, Arthur, hearing, 8085
 Rosow, Jerome M., hearing, 6797
 Usery, Willie J., jr., hearing, 5462
 Weber, Arnold R., hearing, 5462
 career opportunities, help us meet the challenge, 4463
 Commissioner of Labor Statistics, nomination of Geoffrey H. Moore, hearing, 5461
 community action program in Los Angeles County, Calif. effectiveness and administration, GAO report, 17060
 concentrated employment program, effectiveness and administrative efficiency, GAO report—
 Detroit, Mich., 17062
 Los Angeles, Calif., 17063
 concern with labor problems (remarks), 16003
Library, list of recent additions, 3426
Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report—
 Carroll, Chariton, Lafayette, Ray, and Saline Counties, Mo., 11213
 Detroit, Mich., 15780
 Gary, Ind., 14310
 Gila River Indian Reservation and Pinal County, Ariz., 14311
 Grand Rapids, Mich., 11214
 Kansas City, Mo., 14312
 Los Angeles County, Calif., 15781
 Maricopa County, with emphasis on Phoenix, Ariz., 14313
 Minnesota rural areas, 17064
Neighborhood Youth Corps program in Los Angeles County, Calif., certain aspects of administration, GAO review, 1950
on-the-job training programs, improvements in contracting needed, GAO report, 710
press releases, 3300
publications—
 list, 3189
 subject listing, 1963-June 1968, 5885
safety training programs—
 how to inspect chart, HTIC LS series, 5892-93
 occupational safety aid, OSA LS series, 14446-450, 16010, 17152-153
 safe work guide, SWG LS series, 5891, 17147-151

Labor Department—Continued
 secretaries, invitation to live and work in city of opportunity, 8535
 Secretary, nomination of George P. Schultz, hearing, 4095
 Solicitor, nomination of Lawrence H. Silberman, hearing, 8085
 Under Secretary of Labor, nomination of James D. Hodgson, hearing, 5462
Labor disputes:
 emergency board report—
 Illinois Central Railroad Company, Louisville & Nashville Railroad Company, and Belt Railway Company of Chicago, 4191
 Long Island Railroad Company, 10992
 National Railway Labor Conference, and Eastern, Western and Southeastern Carriers' Conference Committees, 8177-78
 see also Industrial relations.
Labor force, *see* Labor.
Labor laws:
 affecting private household workers, 7564
 Labor laws and practice in—
 Argentina, 8546
 Chile, 5894
 Dominican Republic, 2107
 Indonesia, 4469
 Peru, 4470
 labor laws and their administration, 1968 convention proceedings of International Association of Governmental Labor Officials, 8543
 National Labor Relations Board, case developments, quarterly report, 3358
 State, laws enacted in 1968, review, 16011
 State and Federal, legislation, 1967, annual digest, 4468
Labor-management relations act, *see* Industrial relations.
Labor-management reporting and disclosure act of 1959:
 compliance, enforcement and reporting in 1967 under act, 2100
 union financial statistics, 1963-1966, 11332
Labor-Management Services Administration, railroad shopcraft factfinding study, 881
Labor organizations, *see* Labor unions.
Labor relations, *see* Industrial relations.
Labor standards:
 fair labor standards act—
 agriculture and child labor requirements, 11770
 amendments of 1966, legislative history, 496
 application to equal pay for equal work, 2540
 child labor provisions, guide, 6346
 determination under, and interpretations of, Code of Federal regulations, 5005
 Federal service contracts, 11779
 hours worked, 6347
 overtime compensation, 7560
 overtime pay, basic rates for computing, 11777, 13533
 Puerto Rico minimum wage rates—
 corsets, brassieres, and allied garments industry, 11771
 women's and children's underwear and women's blouse industry, 11776
 records to be kept by employers, 7561
 reports to Congress as required by sec. 4(d), 5003-4
 operating practices, work rules, etc., in railroad industry, joint labor-management improvement program, 4272
 prevailing wage requirements on construction of FHA-insured multifamily housing projects, 7069
 safety standards (periodical), 3407
 women, task force report, 792

Labor Standards Bureau:
bulletins, 885-886, 4468, 5890, 7170-84,
8543, 16007-8, 17142-146
safety standards (periodical), 3407
selected publications, list, 10013

Labor Statistics Bureau:
BLS report series, 889, 2107, 4469-71,
5894, 8546, 12963, 16012
BLS staff papers, 2108
bulletins, 890-897, 2109-20, 4472-4604,
5895-5908, 8547-56, 10014-28, 11334-
349, 12964-974, 14451-461, 16013-25,
17154-155
manpower and employment statistics pub-
lications, bibliography, 8558
1969 major programs, 17156
north central regional reports, 899,
14465-466
publications, catalog, 2121, 11350
regional reports, 901, 11355
Middle Atlantic region, 12979-981,
14468

Labor Statistics, North American Con-
ference on, *see* North American Con-
ference on Labor Statistics.

Labor turnover:
factory, monthly release, 2815
women, facts, 17442
14468

Labor unions:
card problem, partial solution (remarks),
10196
foreign-aid activities, hearing, 15451
organizations—
Australia, 7188
Malaysia, directory, 7186
New Zealand, 7189
Republic of Korea, 7187
recognition in Federal government, listing
by agency, 7786
register of reporting labor organizations,
revised pages, 5886
union contract expirations 1969-70, in
north central region, 14465
union financial statistics, 1963-1966, se-
lected financial data for labor organiza-
tions filing annual reports under Labor-
management reporting and disclosure
act, 11332
wages and hours—
local transit operating employees, 8550
motortruck drivers and helpers, 12965

Welfare and pension plan act of 1968,
report, 371

Welfare and pension plans disclosure act,
amend. report, 371
see also Collective bargaining.

Laboratories:
automated laboratory, health examina-
tions, personal medicine, 2416
biotechnology, for manned earth orbiting
missions, study—
results, recommendations, and require-
ments, 14580
summary of individual experiments, re-
quirements, 14581
central laboratories exchange experience,
USSR, 4446
diagnosis of intestinal parasites, proce-
dures, 17341
educational laboratories, national program,
15637
Federal, utilization, report, 422
gravity measurements and standards
laboratory, 14675
health research laboratory design, 1193
laboratory analysis, 15811
laboratory oil-recovery tests with ultra-
sonically formed emulsions, 14559
laboratory reprocessing effects on silver
phosphate glass microdosimeters, 3703
laboratory testing of silver amalgam
restorative material with stannous
fluoride, 10529
laboratory theory and methods for sedi-
ment analysis, 15811
milk laboratories approved by Federal

Laboratories—Continued
and State agencies, 8810
rearing cotton insect parasites in labora-
tory, 13605
rearing of cotton insects in laboratory,
13604
regional educational, progress report, 586
Western Utilization Research & Develop-
ment Division, 11797
see also Research laboratories—Testing
laboratories—*also* names of labora-
tories or places where located.

Laboratory apparatus and supplies:
common laboratory instruments for meas-
urement of radioactivity, report, 2415
Federal item identification guides for sup-
ply cataloging, supplements, 2846

Laboratory-field comparisons of built-up
roofing membranes, 4768

Laboratory methods in anaerobic bacteri-
ology, NCDC laboratory manual, 1339

Laboratory wastes, *see* Waste products.

Laborers, *see* Labor.

Lavovitz, I. M., Federal programs of grants-
in-aid to State and local governments,
15456

Labrador, sailing directions, change, 16298

Labrador Sea:
Labrador Sea and Grand Banks region,
1966, oceanography, 15154
oceanographic cruise summaries, 13228,
13260

Labus, Thomas L., natural frequency of
liquids in annular cylinders under low
gravitational conditions, 14648

LACBWR, *see* Reactors (atomic).

Lace, trade and tariff information, sum-
maries, 1461

Lacey, Robert E., electrosorption and desorp-
tion process for demineralization, 4404

Lachenbruch, Arthur H., effect of two-
dimensional topography on superficial
thermal gradients, 12759

Lackey, Earl E., general nomograph for nor-
mal and skewed frequency distributions,
climatological and other applications,
3762

Lacquer and lacquering, current industrial
reports, 2732

La Crosse boiling water reactor, *see* Reactors
(atomic).

Lactates, responses, biochemical cycle func-
tions in saturation-excision diving, 922

Lactic acid, production in rat liver slices,
effects of pH, CO₂, and buffering systems,
13631

Lactic dehydrogenase, *see* Dehydrogenase.

Ladders, *see* Stepladders.

Lafayette County, Ark., community profile,
15572

Lafayette County, Mo.:
community action program, effectiveness
and administration, GAO report, 11207
Neighborhood Youth Corps program, ef-
fectiveness and administrative efficiency,
GAO report, 11213
work experience and training project, ad-
ministration and effectiveness, GAO re-
port, 12728

LaFertey, Preston E., nonlinear model for
evaluation of cotton processed by mills
for specific end uses, 3673

LaFleur, Philip D., Activation Analysis Sec-
tion, summary of activities, 7324

LaFreniere, G. F., ground-water resources
of Santa Ynez upland ground-water basin,
Santa Barbara County, Calif. 9900

La Garita Wilderness, Rio Grande and Gun-
nison National Forests, general informa-
tion, 15752

Lagrange equations of motion, *see* Equations
of motion.

Laguna, N. Mex., railroad accident, report,
11080

Laguna Canyon, Calif.:
flood hazard, problem, solution, etc., 12448
flood plain information, 9676

- Laguna Pueblo, lands, hold in trust, reports, 14002, 16783
- Lahontan, Lake, north Lahontan subregion, Calif., ground-water data, 9898
- LaHue, Delmon W., evaluation of several formulations of malathion as protectant of grain sorghum against insects in small bins, 10486
- Laird, Melvin R., nomination, hearings, 4071
- Lake Chelan National Recreation Area, general information, 14712
- Lake City formation, Middle Eocene, echnolds, from, 1383
- Lake County, Ind.:
community action program, effectiveness and administration, GAO report, 14308
work experience and training, administration and effectiveness of project, GAO report, 8327
- Lake County, Mont., mineral resources of Mission Mountains primitive area, 4350
- Lake County, Ohio:
Chagrin River, flood damages need not increase, 12529
flood plain information, 9669
- Lake County, Tenn., soil survey report, 14875
- Lake currents, currents at Harbor Beach, Mich., 903
- Lake George, Colo.:
beryllium area—
Park and Jefferson Counties, Colo., geology and beryllium deposits, 12781
tin and tungsten, distribution, 738
- Lake Mead National Recreation Area, general information, 1225
- Lake States, *see* Great Lake States.
- Lake Superior, *see* Superior, Lake.
- Lake Survey:
basic data reports, 4610, 17158
research reports, 903-904, 4611, 11357
- Lake Traverse Reservation, resources of Sisseton Reservation area, history, present, potential, 9951
- Lake trout, *see* Trout.
- Lakes:
Columbia River basin, change of storage, 3470
reclamation, recreational facilities, region 2, 14838
trout lakes, control of aquatic weeds with crayfish, 6258
corrected copy, 13467
see also names of lakes.
- Lakewood, Ohio:
flood plain information, 9686
Rocky River floods, stay dry by building high, 12512
- Lamadriz, Domingo, relief, 4032
- Lambert, Robert M., salivary acid-base levels during exposure to elevated carbon dioxide atmosphere, 5929
- Lambert Bend, Oreg., Willamette River, Greenacres Road crossing, floodflow characteristics, 9937
- Lambert's theorem, *see* Equations.
- Lamb:
fresh, USDA institutional purchase specifications, 1747, 8097
in family meals, guide for consumers, 7591
meat import quotas, report, 10848
- Lambs:
crop, 6310
docking, castrating and ear tagging, 11871
on feed, 6312, 7532-33
- Laminar flow, *see* Flow.
- Laminar flux, *see* Flux.
- Laminated glass, *see* Glass fibers.
- Laminated materials:
capacitive measurement system for non-destructive testing of fiber glass reinforced plastic laminates, 13671
fabricated with reinforcement materials, 182
- Laminated materials—Continued
fiber-reinforced plastic, behavior, under uniaxial, biaxial and shear loadings, 6457
laminar flat-plate boundary layer and aerodynamic heating at Mach 10.4, effects of leading-edge thickness, 8636
laminar heat-transfer distributions for blunted-cone cone-frustum reentry configuration at Mach 10, 7299
moisture content of glulam timbers in Pacific Northwest, 8283
open-face honeycomb to reduce temperature of hypersonic aircraft structure, exploratory study, 11482
polyamide honeycomb core, compressive and shear properties, 12696
thermo-oxidatively stable Pyrrone laminates, experimental feasibility, study for preparation, 13052
- Lamonds, A. G., water resources of Randolph and Lawrence counties, Ark., 11253
- Lamont-Havens, Ronald W., effects of chronic salicylate administration, 4782
- Lamp holders, Federal item identification guide, 15507
- Lampkin, Emmett C., effects of differing amounts of training and of monochromatic targets on sextant sighting performance, 14605
- Lamprey, Stewart, nomination, hearing, 8091
- Lampreys, lamprey larvicides effects on invertebrates in streams, 3926
- Lamps:
Federal item identification guides, 8125
for supply cataloging, supplements, 2846
rare gas resonance lamps, 16230
short-arc, xenon and xenon-mercury, immersed in water, operating characteristics, 11567
see also Electric lamps.
- Lancashire, Richard B., refractive index-particle density correlation for non-equilibrium cesium plasmas probed by multifrequency helium-neon laser, 11498
- Lancaster, E. R., unified form of Lambert's theorem, 16158
- Lancaster, N.Y.:
flood plain information, 12477
floods, how to avoid damage, 12537
- Lancaster, Pa., railroad accident, report, 11088
- Land, Norman, S., scaled lunar module jet erosion experiments, 8612
- Land:
acquisition for public airports, Federal aviation regulations, 4245, 6338, 11041, 16981
advance land acquisition by local governments, benefit cost analysis as aid to policy, 1996
city expands, conversion of land from rural to urban use, Philadelphia, 1945-62, study, 1997
donations for roadway entrance and interchange, Great Smoky Mountains National Park, amend act, reports, 12167, 16874
Federal and federally assisted programs, uniform and equitable land acquisition policies, establish, hearings, 8074
ground motion and containment, analysis of data, Project Handcar, 13706
ground reflection and signal searching, USSR study, 2065
land and water conservation fund act of 1965, amend, hearing, 9470
land/sea boundary in earth-ionosphere waveguide, VLF mode calculations for propagation across, 1833
land-use planning and control, fragmentation, 10284
landforms of United States, 11241

Land—Continued

leasing rather than purchasing land and buildings by Defense Dept. contractors increases costs to Government, GAO report, 711

making land produce useful wildlife, 7585

management, Douglas-fir reforestation in southwestern Oregon, economic guides, 5917

measure of our land, capabilities, classes, etc., 10492

open space, its use and preservation, 50

Pacific Southwest land and water resources, comprehensive framework study program, 14764

people, and recreation in Potomac River Basin, final report, 5755

policies and practices for acquiring land for reservoir projects, Corps of Engineers (civil functions), GAO review, 4345

prices, directions and dynamics, 7405

private and public ownership, differentiation, Federal reclamation laws, acreage limitation, amendments—
hearing, 14039
report, 16376

productivity of diverted cropland, 8155

purchase plan for Oahe Dam and Reservoir, modification report, engineers report—
departmental edition, 12548
document edition, 12246

radiation field in air due to distributed gamma-ray sources in ground, 186

research studies, trends in value of real estate and land, 1956-66, land use in 106 large cities, and estimating California land values, etc., 1317

resources, Lake Chod Basin, reconnaissance study, 8833

Rio São Francisco Basin, Brazil, reconnaissance appraisal, 1366, 10350-52

soil conservation (periodical), 3443

sprinkler irrigation, soils, climate, and land classification, 14841

studies of land subsidence (series), 14345

subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif., 14345

title bill S. 202, referring to chief commissioner of Court of Claims, 16872

toward an urban land policy (remarks), 783

urban land policy, selected aspects of European experience, 9948

use in United States with special reference to agriculture, summary, 568

utilization, 1963-68, non-urban patterns, bibliographies, 1158
see also Public lands—Real estate—Soil conservation.

Land bridge, fact or fiction? 12994

Land Management Bureau:
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793

Assistant Secretary for Public Land Management briefing session, hearings, 12228

Crystal Hills Recreation Area, Ariz., general information, 12984

Information bulletins, 12987

press releases, 3301

recreation and wildlife on BLM lands, southeast Utah, 12988

technical bulletins, 5917, 17161

timber sales, competition for Federal timber in Pacific Northwest, analysis, 12710

Land operational facilities, 13208

Land policy, *see* Land.

Land tenure, development and status in United States, 11864

Land vehicles, *see* Vehicles.

Landay, Donald M., trends in negotiated health plans, broader coverage, higher quality care, 11352

Lander County, Nev.:

gold, silver and other metals, anomalous concentrations, 743

Sheep Creek Range, western part, geochemical and geophysical anomalies, 1959

Lander Cut-Off, Oregon Trail, general information, guide, 12986

Landfills, *see* Refuse.

Landforms of United States, 11241

Landgrebe, Anton J., procedures for estimating flapwise bending moments on helicopter rotor blades, table, 17204

Landing (aircraft):
advanced scanning beam guidance system for all weather landing, 7539

all weather landing development tests, 16487

approach and landing, flight tests of direct lift control system, 1080

approaches, peripheral vision cues, effect on pilot performance, 5194

civil use of U.S. Government instrument approach procedure charts, 11038

effects of reduced airspeed for landing approach on flying qualities of large jet transport equipped with powered lift, 1059

electronic landings, takeoffs described, USSR study, 2078

equipment, Federal item identification guides for supply cataloging, supplements, 2850

helicopter, contact analog display in landing approaches, 10146

indirect viewing system for lifting-body terminal area navigation and landing tasks, evaluation, 11488

influence of angle of glide slope on accuracy of performing instrument approaches in simulator, 1071

noise abatement landing approaches, flight investigation of systems developed for reducing pilot workload and improving tracking accuracy, 17202

operational limitations in flying noise-abatement approaches, 17243

standard instrument approach procedures, index, 13640

VTOL aircraft, comparison of information display concepts, 1086

Landing (spacecraft), *see* Spacecraft.

Landing fields, *see* Aviation fields.

Landing gear, prototype lunar module, full-scale dynamic landing-impact investigation, 7251

Landis, G. Paul, ionosphere propagation delay measurement techniques using dual phase coherent doppler frequencies and thin shell model, 13288

Landisville, Pa., railroad accident, report, 11108

Landlords and tenants:
nationwide tenants rights program (address), 15822

rent supplement help for tenants, Spanish edition, 5746

Landmarks in science, 14520

Landrock, Arthur H., polyurethane foams, technology, properties and applications, 12376

Lands, *see* Public lands.

Landscape, management, old-growth Douglas fir, economic evaluation and choice, 1932

Landscape architects, employment outlook, 4516

Landslides:
Alaska earthquake of Mar. 27, 1964, effects on various communities, 14346

influence of sitka alder on soil formation and microbiological succession on landslide of alpine origin at Mount Rainier, 12707

Lane, Elizabeth, agricultural economics research, 2561

- Lang, Helen W., continuous monitoring of diesel exhaust gas for carbon dioxide, carbon monoxide, oxygen, methane, and nitrogen oxides, 5961
- Lange, G. Robert, rotary drilling and coring in permafrost, preliminary investigation at Fort Churchill, Manitoba, 3747
- Langley Research Center, description of high-enthalpy arc tunnel, including test-stream conditions at selected operating points, description, 13098
- Langmuir probes, *see* Electric probes.
- Language and languages:
- bilingual education, new program, projects, 16961
 - communicating by language, reading process, conference proceedings, 1188
 - higher education programs in foreign language and area studies, research and training opportunities abroad, 14142
 - national defense education act—
 - awards for modern foreign language and area study, 5533
 - language development program research completed, etc., list, 10975
 - speech and language development program, Milwaukee, Wis., elementary program in compensatory education, 6876
 - technical translation, USSR: bilinguistic study, 17125
 - see also* Electronic computers—*also* names of languages.
- Lanier, Sidney F., subject headings used by USAEC Division of Technical Information, 7705, 16628
- Lanio, Olga C. P., relief, 6625
- Lannen, Margaret A., additional interest earnings of OASDI trust funds resulting from changed interest rate provided in 1960 amendments, 6229
- Lansche, Arnold M.:
 - mineral industry of—
 - Burma, 14538
 - Philippines, 13018
- Lansing, Robert, Secretary of State, personal and confidential letters to President Wilson, pamphlet to accompany microcopy, 1170
- Lanthanum:
 - fluoride electrode response in water and in 1M sodium chloride, 13303
 - lanthanum fluoride electrode, measurement of fluoride activity and concentration in seawater, 14753
- Laos:
 - background notes, 8873
 - Nam Ngum development fund, agreement, 11714
- LaPage, Wilbur F., campground marketing, heavy-half strategy, 17027
- La Paz, Mexico, despatches from U.S. consuls, 1855-1906, pamphlet to accompany microcopy, 16219
- Laptev Sea, summer oceanographic features, 13267
- Lara, Joe M., gamma probe calibration tests, 14833
- Laramie Petroleum Research Center, general information, 14533
- Lard, commercial production, 8905
- Larger units, theater Army-corps, 3756
- La Roche sites, S. Dak., archeology, 2450
- Larsen, Marion R., agricultural situation in Communist areas, eastern Europe, Soviet Union, and mainland China, 6859
- Larsen, Roy J., soil survey, Crowley County, Colo., 6241
- Larson, Carl A., rotating space station stabilization criteria for artificial gravity, 17221
- Larson, Clarence E., remarks, Oct. 13, 1969, 15084
- Larson, T. J., reverse osmosis membrane module, spiral-wound concept, 11283
- Larvae, *see* names of insects.
- Laser beams:
 - intense, interaction with free electrons, 10128
 - laser beam spread and curvature over near-horizontal atmospheric paths, measurements, 9726
 - 1.15-micron, atmospheric scattering from, and off-axis detectable range, 1836
- Lasers:
 - carbon dioxide, in space communications, USSR study, 5855
 - CO₂ laser development for space applications, survey, 1057
 - dye lasers as high power, pulsed, visible light sources, program to evaluate, 11418
 - laser doppler velocity instrument, 2187
 - laser health hazards control, aerospace medicine, 6411
 - microwave and laser systems for communication and tracking, parametric analysis, summary, 8657
 - nitrogen laser power density and some design considerations, 13280
 - nonequilibrium cesium plasmas probed by multifrequency, helium-neon laser, refractive index, particle density correlation, 11498
 - rate coefficient relevant to H₂ UV laser, 10251
 - striations in HE-NE laser, experimental and theoretical investigation, 13048
- Lasher, L. E., effect of shock precursor heating on radiative flux to blunt bodies, 4680
- Lasiocampidae, *see* Moths.
- Laspesyesia anaranjada, *see* Moths.
- Lastinger, James L., PDP-8 FORTRAN program for reduction of acoustic impedance data, 8764
- Las Vegas National Wildlife Refuge, plan, 2467
- Late somatic effects of ionizing radiation, 3812
- Lateral sloshing, *see* Sloshing.
- Lateral stability, *see* Stability of aircraft.
- Latham, Earl E., soil survey, Barren County, Ky., 8864
- Latham, Thomas S., nuclear studies of nuclear light bulb rocket engine, 8594
- Lathers, employment outlook, 4487
- Lathes:
 - copying shoe lathes, suspension of duty, continue—
 - law, 15204
 - reports, 7898, 10846
- Latin America:
 - aid programs—
 - hearings, 10783
 - report, 12193
 - alliance for progress—
 - goals reviewed, report, 6717
 - studies and hearings, print as Senate document, report, 7920
 - survey—
 - Colombia, U.S. aid, case history, 5445
 - compilation of studies and hearings, 9350
 - compilation of studies, print as Senate document, report, 8023
 - toward a strategy of inter-American development, new directions for the 1970's—
 - hearings, 10783
 - report, 12193
 - U.S. foreign aid, 1970 proposed program, 14426
 - United States aid operations, review, hearings, 12226
- arthropods of medical importance—
 - data on mosquitoes, 7656
 - other than mosquitoes, 7657
- containerization and documentation in inter-American trade (remarks), 14209
- contributions to hydrology of Latin America and Antilles (series), 11251
- economic growth trends, 12857

- Latin America—Continued
 economic integration, implications for U.S. business, 6543
 Inter-American transportation, affected by regulatory problems (remarks), 14211
 Latin America and Caribbean, analytical survey of literature, 13660
 Latin American farmer, 12418
 market profiles, 10652
 programs and operations of American Institute for Free Labor Development, hearing, 15451
 Rio pact, review of U.S. military commitments abroad, report of subcommittee, 1697
 selected references, 11911
 social science research, special papers available, 11703
 translations, 3510
 U.S. economic assistance, obligations and loan authorizations, 822
 U.S. military policies and programs, hearings, 12299
 Latin American Free Trade Association, progress, problems, prospects, 10414
 Latitude, astronomic, and their computer programs, investigations in determining, 13226
 Lathner, Norman, determining state of charge of nickel-cadmium batteries by farad capacitance measurements, 7680
 Lattice theories, investigation of collable lattice column, 10071
see also Crystal lattices.
 Lattu, Onnie P., address, Oct. 28, 1968, 793
 Latvia, cybernetics, applications, USSR study, 5854
 Latvian Soviet Socialist Republic, future in science, technology scanned, 15917
 Lauderdale County, Ala., forest inventory statistics, 11741
 Launch vehicles, *see* Adaptors—Spacecraft.
 Launchers, *see* Rocket launchers.
 Launching facilities:
 aircraft equipment, Federal Item Identification guides for supply cataloging supplements, 2850
 worldwide cosmodromes, space launches, USSR discussion, 2082
 Laundry and laundries:
 field laundry operations, Army technical manual, change, 13663
 industry in Puerto Rico, data pertinent to review of minimum wage rates, 10449
 laundering of clothing and equipage, military standard, 5501
 worker, job grading standard, civil service, 1644
 Laundry machine operators, job grading standards, 7779
 Laurence, James C., high-field electromagnets at NASA Lewis Research Center, 1125
 Lautz, William, detection survey of Annosus root rot, Allegheny National Forest, 7004
 Lautzenheiser, Robert E., climates of States, Massachusetts, 14161
 Lava:
 ancient lavas in Shenandoah National Park near Luray, Va., 5701
 lava columns, Devils Postpile National Monument (poster), 6091
 Lava Beds National Monument, geologic and hydrologic reconnaissance, 8348
 Laventure, Louis, or heirs, relief, 9393
 Lavine, James P., models of trapped radiation environment, inner belt protons, 11431
 LaViolette, Paul E.:
 satellites capable of oceanographic data acquisition, review, 13269
 temperature, salinity, and density of world's seas—
 Sea of Japan, 13220
 Yellow Sea, 13218
 Law, James P., Jr., agricultural utilization of sewage effluent and sludge, 4287
 Law:
 biological, legal aspects of medical science, USSR articles, 840
 current legal literature, list, 14181
 enactment, procedural steps, print additional copies, report, 16861
 equal employment opportunity under Federal law, 13785
 family law and policy, task force report, 791
 how our laws are made, 12144
 print as House document, report, 9420
 reprinting, report, 7916
 JAG law review, 3016
 Judge Advocate legal service, Army pamphlets, 3027
 law in action, Legal Services program of war on poverty (periodical), 3032
 law of United States, classification, Library of Congress, 14482
 laws of United States relating to improvement of rivers and harbors, compilation, 6569
 legal guidelines for governmental action, alternatives to urban sprawl, 4860
 legal-political arrangements for development of marine resources, national program Marine Science, Engineering and Resources Commission panel reports, 10285
 legal proceedings, testimony by FAA employees and production of records, Federal aviation regulations, 12583
 legal remedies for housing code violations, 1318
 procurement legal service, Army pamphlets, 7663, 16597
 cumulative index-digest, table of materials digested, 172
 representation law, responsive approach to exercise of employee rights (address), 8702
 slip laws (private), 91st Congress, 9232-35, 12081-108, 13834-845, 16722-732
 slip laws (public) 90th Congress, 340-343, 1681, 3342
 slip laws (public) 91st Congress, 6561-63, 7827-32, 9236-46, 10679-685, 12109-129, 13846, 15194-214, 16733-744
 Soviet law and social regulation, translations, 3517
 State laws enacted in 1968 of interest to Housing and Urban Development Department, 14397
 statutes, Government Operations Committee, House, 9349
see also Civil law—Codes of law—International law—Legislation—Military law—Statutes at large—also subjects.
 Law clerks, legal clerk's handbook, 6434
 Law enforcement:
 and traffic regulation on national forest development road system, 13602
 comprehensive law enforcement planning, grants, 5877
 correctional planning and resource guide, 8528
 crime in District of Columbia, suggestions of President's Commission on crime, implementation, committee print, 6780
 Federal training center, proposed construction at Beltsville, Md., hearing, 9494
 law enforcement education program manual, 8529
 LEAA grants and contracts, dissemination documents, 871-873
 LEAA publications, list, 874
 LEEP grants and loans awarded, 1968, list, 5878
 LEEP newsletter, 10007
 national program of research, development, test, and evaluation, 875

Law enforcement—Continued

officers, facts about compensation for non-Federal death and disability benefits, 4192
 omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
 regulations for enforcement of Federal food, drug, and cosmetic act and fair packaging and labeling act, 1902
 rights in concord, response to counter-inaugural protest activities in Washington, D.C., 13325
 triumph of principle (address), 17076
 Law Enforcement Assistance Administration:
 annual report, 14431
 financial guide for administration of planning and action grants awarded under title 1, of omnibus crime control and safe streets act of 1968, 15992
 LEAA planning aid, correctional planning and resource guide, 8528
 LEAA publications, list, 874
 LEEP grants and loans awarded, 1968, list, 5878
 Law Enforcement Assistance Office, LEAA grants and contracts, dissemination documents, 871-873
 Lawlor, John T., relief, 13880
 Lawn insects, how to control them, 5036
 Lawns:
 better, establishment, maintenance, renovation, problems, grasses, 506
 how to buy seed, 14993
 water management, picture story, 5063
 weed control with herbicides, 40
 Lawrence, Thomas R., survey of CO₂ laser development of space applications, 1057
 Lawrence, Mass., area wage survey, 16018
 Lawrence County, Ark.:
 community profile, 15573
 water resources, 11253
 Lawrence Hall of Science, experimentally oriented science exhibits, 3811
 Laws, J. S., hydrogen gas pressure vessel problems in M-1 facilities, 5986
 Laws, *see* Codes of law—Labor laws—Law—also subjects.
 Lawyers:
 career opportunities with Civil Aeronautics Board, 16674
 employment outlook, 4517
 estate tax attorney, career with Internal Revenue Service, 4408
 fees for services in proceedings before administrative agencies, restore to persons having claims against U.S., right to choose their own legal counsel, hearing, 405
 judge advocates and law specialist officers for Armed Forces, procurement and retention, amend U.S. Code, hearing, 15305
 Justice Department, Tax Division, opportunities for attorneys, 15993
 legal careers in Federal taxation, 17101
 Navy, professional opportunities, 4454
 pay, national survey, 4597
 registered to practice before Patent Office, lists, 11587
 role as interpreters of law in regulatory agencies (remarks), 11065
 shippers recovery of attorney's fees, hearing, 15429
 Veterans Administration, Office of the Chief Attorney, operating procedures, 16523
 Layout, *see* Plants (industrial).
 Layout men (machine shop):
 employment outlook, 4519
 Lazanoff, Arthur S., feasibility study of using LIF detectors in neutron flux integrator, 13693

Lazaro, Jaime E., relief, 8008
 Lazaro, Lydia L., relief, 8007
 Lazarow, Arnold, diabetes literature index, 2766, 13170
 LEAA, *see* Law Enforcement Assistance Administration.
 LEAA (Law enforcement assistance act), *see* Law enforcement.
 Leaching:
 experimental gold from mine waste, 7220
 extraction of aluminum and fluorine from leached potlining residues, 10065
 Lead:
 disposal from national and supplemental stockpile—
 law, 15195
 reports, 8034, 10722
 industry, mineral industry survey, monthly, 3033
 lead-zinc exploration, Mississippi Valley, lead isotope guides, 14335
 release 100,000 short tons from national and supplemental stockpiles, hearings, 9334
 rolled Pb-Cd-Sb alloys, tensile and stress-rupture properties, 14550
 superconducting lead pressure contracts, 1263
 Lead-acid cells, *see* Storage batteries.
 Lead isotopes, guides for Mississippi Valley lead-zinc exploration, 14335
 Lead Oxides, anodic oxidation of 3 representative oxides, 1269
 Leadership:
 aerospace leadership, careers for officers, Air Force, guide, 67
 Air Force Academy applicants, desired standards of quality, 9003
 executive leadership in public service, 8929
 gateway to leadership, Air Force Officer Training School, 5082
 greater leadership in agriculture called for, USSR articles, 5826
 military, CPSU conflicts denied, USSR study, 5856
 Navy, manual, 1250
 officers' call, the challenge of leadership, Army pamphlet, 13659
 pointers on conference leadership, 4855
 recreation program, suggested 2-year post high school curriculum, 14141
 ROTC program, where the leaders are, 13682, 15059
 serum uric acid levels and leadership in Marine Corps, 14508
 situational measure, speeded practical judgment test, factor analysis, 6440
 training for, career in Office of Education, 4188
 USSR Armed Forces, Party leadership emphasized, 5847
 Leading edge, *see* Wings (aircraft).
 Leaf cast, brown-spot needle blight of long-leaf pine, 14263
 Leaflets, *see* names of departments, etc., issuing leaflets—also subjects.
 Leak, William B.:
 birch regeneration, stochastic model, 678
 rates of value increase for yellow birch in New England, 15767
 Leak, William M., report of NRL progress, 3380
 Leaks:
 detection in hermetically sealed devices, 17225
 fuel-clements fission product leakage at NASA Plum Brook Reactor, causes, measurement, and elimination, 14622
 leakage rates and torque of various lubricated lip seal designs at peripheral velocity of 120 feet per second, 14647
 radium leak test, collection of articles, 13353

- Learning:
 children with learning disabilities, act of 1969—
 hearings, 13924
 report, 15270
 lifetime, adult basic education, community service and continuing education civil defense education, 12436
 programmed, Air Force manual, 9000
 retention of avoidance learning in rats, effect of rapid eye movement (dreaming) sleep deprivation, 8580
 training equipment and individual differences, effects of subject matter variables, study, supplementary report, 1256
- Leary (U.S.S.):
 loan, extension, agreement with Japan, 14913
- Leases:
 Indian lands—
 located outside Indian reservations in New Mexico, longer term report, 14000
 long term leasing, amend act, report, 14001
 lease program guarantee program for Small Business Administration, staff review and analysis, 4073
 leasing rather than purchasing land and buildings by Defense Dept. contractors increases costs to Government, GAO report, 711
 oil and gas leases, termination and reinstatement, report, 9434
- Leather, manufacturing, 7732
- Leather goods, *see* Leather, hides, and skins.
- Leather hides and skins:
 futures trading and open contracts, 2930
 leather, methods of sampling and testing, Federal test method standard, 5650
 leather tanning and finishing, industrial wage survey, 11336
 leathers, Federal item identification guides for supply cataloging, supplements, 2849
 personal leather goods, current industrial reports, 2732
 trade and tariff information, summaries, 7540
- Leatherman, A. F., induction heating advances, applications to 5800°F, 8607
- Leatherwood, Jack D., heave response of plenum air cushion including passive and active control concepts, 8649
- Leave of absence:
 civilian employees in military departments, need for improved accounting, GAO review, 4341
 court leave for employees of United States and District of Columbia, correct inequities, report, 13907
 Federal agencies, principles and procedures, GAO guidance manual, 14302
 Government officials and employees, FPM supplement, 2363
- Leaves:
 conifer foliage, volumeter for estimating quantity, 9853
 foliage plants, production and sales, etc., 7529, 10500
 foliar anatomy of genera *Connellia*, *Cottendorfia* and *Navia* (Bromeliaceae), monograph, 16403
see also Defoliation.
- Lebanon:
 Army area handbook, 15049
 background notes, 4956
 economy, basic data, 9211
 establishing business, 312
- LeBel, Peter J., analysis of gamma-ray-backscatter technique for direct measurement of density of Martian atmosphere, 16180
- Lecture method in teaching, sampling lectures, supplemental courses for case studies in surveys and censuses, 1625
- Lecture, *see* Addresses, lectures, etc.—Lecture method in teaching.
- Lederman, Leonard L., on analysis of allocation of Federal budget resources as indicator of national goals and priorities, 16211, 17258
- Lee, Alvin T. M., outdoor recreation, catalog of research projects in Agricultural Dept. and State agricultural experiment stations and forestry schools, 6819
- Lee, Chong Pil, relief, 10831
- Lee, George R., sport fishery abstracts, 3454
- Lee, H. Rex, nomination, hearings, 1737
- Lee, In Sook, relief, 6636
- Lee, Marion M. and Arthur N., relief, 6837
- Lee Ok Ja, relief, 6617
- Lee, R. D., construction and operation of simple high-precision copper-point black-body and furnace, 8672
- Lee, Ronald B., nomination, hearing, 8088
- Lee, Ronald F., public use of National Park System, 14714
- Lee Sung Nan, *see* Sung Nan Lee.
- Lee, Thomas S., apparent local jump in momentum transfer rate at front of flare-fresh solar plasma in interplanetary space, 10249
- Lee, Wayne A., formalization of measurement scale forms, 11481
- Lee County, Ark., community profile, 15574
- Lee County, S.C., board of education, land conveyance, reports, 10730, 15361
- LEED (Low energy electron diffraction), *see* Electron diffraction.
- LEEP (Law enforcement education program), *see* Law enforcement.
- Lees, Arthur S., mineral industry of Rhode Island, 17189
- Leeward Islands:
 Antigua, investment guarantees, agreement, 2496
 St. Christopher, Nevis, and Anguilla, investment guarantees, agreement, 6290
- LeFandre, R. A., attenuation of microwave radiation for paths through atmosphere, 13279
- Left-Hand Creek, flood plain information, 12463
- Leftin, M., numerical maps for fbEs solar cycle minimum, 14167
- Legal aid, effectiveness and administration of Legal Services program under title 2 of Economic opportunity act of 1964, Office of Economic Opportunity, GAO report, 12739
- Legal and economic impact of foreign banking procedures on United States, hearing, 3987
- Legal aspects of selective service, 2444
- Legal literature, *see* Law.
- Legal procedures, *see* Law.
- Legal remedies for housing code violations, 1318
- Legal services, *see* Law.
- Legault, Robert A., sea water corrosion control by environment modification, 11281
- Legendre functions, *see* Mathematics.
- Legislation:
 Federal jurisdiction and body of uniform Federal law, provide for aircraft crash litigation, hearings, 12306
 housing and urban development, hearings, 14017
 legislative history of fairness doctrine, staff study, 6721
 legislative reorganization act of 1969, improve legislative branch, reports, 9432, 10842
 principal legislative proposals, message from the President, report, 7848
 Public Works Committee, House, activities, 90th Congress, 5381
 Public Works Committee, Senate, activities and accomplishments, summary, 90th Congress, 8093
 selected, relating to the handicapped, 1968 summary, 5733
 State, program of Advisory Commission on Intergovernmental Relations, 10456

Legislation—Continued

uniform body of Federal law governing aircraft crashes, establish, hearing, 5453
volunteer organization role in legislative process, Michigan minimum wage campaign, 5007

see also Labor laws—Law—also subjects.
Legislative appropriations, see Appropriations.

Legislative, Executive, and Judicial Salaries Commission, see Executive, Legislative, and Judicial Salaries Commission.

Legislative bodies, State legislatures, apportionment, 8943

Legislative reorganization act, see Congress of United States.

LeGros, P. G., study of deep-well disposal of desalination brine waste, 17094

Legumes, meadow spittlebug on legumes, control, 5048

Lehigh River and Valley, water quality and discharge of streams, 14374

Lehman Caves National Monument, general information, 4802

Lehmer, Donald J., Arikara archeology, Bad River phase, 1381

Lehne, Henry, nomination, hearing, 8088

Leibovich, S., hydrodynamic stability of inviscid rotating coaxial jets, 8602

Leipold, Louis E., Prince William Sound, Alaska, earthquake, 1964, and aftershocks, 6528, 10634

Leiserson, Lee, chemicals from seat water brines, 17093

Leithem, J. J., turbulence in mixing region between ducted coaxial streams, 13039

Leitz, F. B., research on piezodialysis, 14405

Leko, Robert W., transfer functions for radiator dynamics in SNAP-8 system, 2246

LeMasurier, Joseph, coordinator's score-board, 2705

LeMéhauté, Bernard, introduction to hydrodynamics and water waves, 14168-169

Lemonade, frozen concentrate, U.S. standards for grades, 4110

Lending operations, see Loans.

Length (measurement):

effective length and internal impedance of elements of receiving array, 10262

Length-of-service, see Labor.

Lenin, Vladimir I., Krupskaya tells scenes from Lenin's last months of life, 5869

Leninism, see Communism.

Lens (eye), see Eyes.

Lenses:

evaluation of forest canopies by photography, 1576

lighting, Federal Item Identification guide, 4130, 8126, 14088

yellow lenses in Air Force operations, 3701 see also Contact lenses.

Leonard, Edmond J., performance, story of the handleapped, 3247

Leonard, Jerris, nomination, hearing, 5455

Leonard, Rodney E., statement, Nov. 20, 1968, 3670

Leonard, Will E., jr., nomination, hearing, 4077

Leonhart, William, nomination, hearing, 8065

Leopold, Henry L., sound velocity cross sections of world's oceans, eastern North Pacific, 13236

Lepidoptera, see Moths—Stenomidae.

Lerch, Francis J.:

evaluation of Goddard Range and Range Rate System at Rosman by intercomparison with GEOS I long-arc orbital solutions, 11437

GEOS I tracking station positions on SAO Standard Earth (C-5), 11435

gravity model comparison using GEOS I long-arc orbital solutions, 11436

Lerch, Norbert K., soil survey, Preble County, Ohio, 13446

Lerch, Orville H., nomination, hearings, 12322

Lerfald, G. M., Hall-effect magnetometers in scientific rocket payloads, 6919

Lernaea cyprinacea, see Anchor worm.

Lescure, William J., naval research reviews, 3174

Lesotho, see South Africa.

Lespedeza, annual, culture and use, 7586

Lesser Antilles, see Antilles.

Lesser Sunda Islands, sailing directions, change, 4820

Lessert, Clement, or heirs, relief, 9393

Lessing, Henry C., use of integral transforms in estimation of time variable parameters, 8644

Lethal dose, effects of rate of delivery of ionizing radiation, on LD 50/30 of rodents, 91

Let's do business, 11769

Let's go Air Force!, 6413

Let's talk about goofballs and pep pills, 7377

Letters:

application and recommendation during administration of Martin Van Buren, William Henry Harrison, and John Tyler, pamphlet to accompany microcopy, 1162

microcopy, pamphlet to accompany—

Justice Department, 1867-1904, instructions to U.S. attorneys and marshals, 8663

Mint Bureau Director, 1795-1817, letters sent, 14656

Navy Department, Secretary, letters sent to officers, 1798-1868, 16214

Refugees, Freedmen, and Abandoned Lands Bureau Commissioner registers and letters received, 1865-72, 11512

Revenue Commissioner, 1794-96, Tench Cox, on procurement of military, naval and Indian supplies, 14657

Treasury Department, Secretary—

letters sent to collectors of customs at Pacific ports, 1850-78, 16216

received 1833-69 from collectors of customs, 16215

received, 1854-61, from special agents, 16217

personal and confidential, from Secretary of State Lansing to President Wilson, pamphlet to accompany microcopy, 1170

Lettuce, market quality of lettuce shipped in nitrogen-refrigerated and mechanically refrigerated trailers, effects of transit temperatures and modified atmospheres, 3647

Leucocytes, human leukocytic interferon production conditions for obtaining, USSR study, 12891

Leukemia, childhood, pamphlet for parents, 17274

Levadi, Solomon S., relief, 6596, 13986

Levees, contour-levée irrigation, SCS national engineering handbook, 13443

Leverton, John W., helicopter noise, blade slap, review and theoretical study, 1030

Levinsky, E. S.:

lifting surface theory and tail downwash calculations for V/STOL aircraft in transition and cruise, 3784

nonlinear lift and pressure distribution of slender conical bodies with strakes at low speed, 1021

Levy, A. J., annual lithium-drifted germanium detector for studying nuclear reaction gamma-rays, 1001

Lewins, Leon, basic data on economy of Poland, 12070

Lewis, C. F., results of 1966 regional cotton variety tests, 5020

Lewis, Charles A.:

addresses—

Oct. 9, 1968, 215

Nov. 26, 1968, 214

- Lewis, Dorothea J. :
 handle yourself with care—
 accident prevention for older Americans, 6353
 instructor's guide for accident prevention course for older Americans, 5018
 Lewis, Everett M., jr., effects of alcohol on decision-making with respect to traffic signals, 13350
 Lewis, James P., tests of sodium boiling in single tube-in-shell heat exchanger over range 1720° to 1980°F (1211 to 1355K), 11495
 Lewis, John R. :
 cement, 17169
 mineral industry of—
 Gabon Republic, 5937
 Nigeria, 5942
 nitrogen, 14546
 tin, 16108
 Lewis, L. Earl, Federal pay comparability procedures, white-collar salaries in Federal service, 5912
 Lewis, Mark F. :
 assessment of Broca-Sulzer phenomenon via inter- and intra-modality matching procedures, studies of signal-light brightness, 10582
 two-flash thresholds as a function of flash luminance and area, 7726
 Lewis, Ralph D., performance of two models of commercial unbonded strain-gage-type absolute pressure transducer at 260°C, 11497
 Lewis, Wayne C., thermal insulation from wood for buildings, effects of moisture and its control, 684
 Lewis, William, simplified analytical model for use in design of pump-inlet accumulators for prevention of liquid-rocket longitudinal oscillation (pogo), 14638
 Lewis and Clark Expedition, brief account, 5916
 Lewis and Clark Lake :
 fish sampling and estimation of relative abundance, 7475
 sauger population, biological characteristics, 7475
 white crappie, biology, 7475
 Lewis and Clark Range Mont., southeastern, reconnaissance geology, geophysics, and geochemistry, 731
 Lewis and Clark Trail Commission :
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 press releases, 3302
 Lewis and Clark Trail Highway, interstate planning and coordination, expedite, hearings, 13939
 Lewis County, W. Va., coal, preparation characteristics, 4638
 Lewis Creek, flood plain information, 12457
 Lewis Research Center, NASA, high-field electromagnets, 1125
 Lexicography, information system user inquiries, and an IRS frequency lexicon, processing and compiling, 12893
 L'Hollier, L. H., sealed insulated military boots, 3761
 Li, C. Y., simple, quantitative method of assaying soil for inhibitory fungi, 17030
 Li, Cheng-Hual relief, 6738, 13887, 16723
 Liability (law) :
 District of Columbia, hotels, etc., liability to guests, revise laws, report, 16803
 Liberal, Kans., motor carrier accident, 4655
 Liberation of Guam, 12991
 Liberia :
 economic trends and their implications for United States, 12845
 military mission, agreement, 13482
 mineral industry, minerals yearbook chapter, 5940
 Liberia—Continued
 records of Dept. of State, pamphlet accompanying microcopy political relations with other States and with U.S., 13152
 rice price support and marketing incentive program, 16557
 Liberian National Medical Center, general information, 13352
 Liberty :
 America's role for freedom in the world (address), 11706
 freedom is not free, troop topics, 1579
 Liberty bonds, *see* Bonds of United States.
 Liberty loan acts, *see* Bonds of United States.
 Librarians :
 Army, professional career, general information, 9029
 employment outlook, 4518
 examination announcement, 5272
 Veterans Administration installations, 287, 12051
 military librarians' workshop proceedings, 1530
 National Library of Medicine, post-graduate library associate training program in biomedical communications, curriculum, qualifications, etc., 17284
 vacancy roster, Federal Government libraries, 2894
 Veterans Administration hospitals, nationwide career information, 6338
see also Medical record librarians.
 Libraries :
 colleges and universities, data for individual institutions, statistics, 6881, 14138
 depository—
 law governing, and list of libraries, 6733
 list, 3132
 discover and use your public library, 14855
 establishment and operation, agreement with Rumania, 17409
 Federal Government, roster of libraries and vacancies, 2894
 grants for regional medical libraries, information and policy statement, 7350
 library materials in Federal government, procurement, orientation aid, 4614
 medical library—
 and health communications assistance extension, act of 1969, 16863
 assistance act of 1965, extend—
 hearings, 9360, 14057
 reports, 10731, 10762, 16863
 1969 amendments, hearing, 14057
 Public Health Service, grants, etc., for construction, 1968, funds, 16264
 National Commission on Libraries and Information Science act, report, 9292
 new serial titles—
 classed subject arrangement, 3193
 union list—
 alphabetical arrangement, 3194
 3d edition, 1966-67 cumulation, 909
 partnership for library progress, 10984
 school resources—
 ESEA, title 2, annual report, 6866
 9 elementary school media centers in 3 inner cities, descriptive case studies, 10976
 user and the library, military librarians' work shop proceedings, 1530
see also names of libraries or places where located.
 Libraries and Information Science National Commission, *see* National Commission on Libraries and Information Science.
 Library accessions :
 Adjutant General's Office, Army Library, 3423
 Ceylon, American Libraries Book Procurement Center, New Delhi, 2652
 Federal Fire Council, list, 3074
 foreign statistical publications, 2908

Library accessions—Continued

- India, American Libraries Book Procurement Center, New Delhi, 2975
 - cumulative list of serials, annual supplement, 16033
- Indonesia, American Libraries Book Procurement Center, Djakarta, 2978
 - cumulative list of serials, 12989
- Interior Department, Library, list, 2016
- Israel, American Libraries Book Procurement Center, Tel-Aviv, 3014
- Labor Department Library, list, 3426
- Middle East, American Libraries Book Procurement Center, Cairo, 3118
- Nepal, American Libraries Book Procurement Center, New Delhi, 3185
- Pakistan, American Libraries Book Procurement Centers, Karachi and Dacca, 3240, 5918
- Reclamation Bureau Library, list, 3068
- Russian, Library of Congress, monthly index, 3136
- Soviet literature accessions in Atmospheric Sciences Library and Geophysical Sciences Library, guides, 5581-82, 12575
- Library Committee, Federal, *see* Federal Library Committee.
- Library list, National Agricultural Library, 1157-58, 2272, 10165
- Library of Congress:
 - accessions—
 - Ceylon, American Libraries Book Procurement Center, New Delhi, 2652
 - India, American Libraries Book Procurement Center, New Delhi, 2975
 - cumulative list of serials, annual supplement, 16033
 - Indonesia, American Libraries Book Procurement Center, Djakarta, 2978
 - cumulative list of serials, 12989
 - Israel, American Libraries Book Procurement Center, Tel-Aviv, 3014
 - Middle East, American Libraries Book Procurement Center, Cairo, 3118
 - Nepal, American Libraries Book Procurement Center, New Delhi, 3185
 - Pakistan, American Libraries Book Procurement Centers, Karachi and Dacca, 3240, 5918
 - Russian, monthly index, 3136
 - additional supergrade positions, establish, hearings, 12318
 - annual report—
 - departmental edition, 8564
 - document edition, 7839
 - appropriations, 1970, legislative—
 - hearings, 13917, 15415
 - reports, 15271, 16862
 - calendar of events, 2639
 - cards, books, and records, list, 16034
 - cataloging service bulletin, 2645
 - catalogs—
 - books, subjects, 3069
 - dictionary, subject headings used, 3473
 - motion pictures and filmstrips, 3070
 - music and phonorecords, 907, 16038
 - National Exhibition of Prints, 8566
 - national register of microfilm master's, 4613
 - national union catalog, 3170
 - manuscript collections, 2127
 - register of additional locations, 16039
 - classification—
 - additions and changes, quarterly list, 3029
 - class K, subclass KF, law of United States, 14482
 - collection of papers of—
 - Callen, John, 2126
 - Watson, John, 2126
 - collections, Poland, overview, 10037
 - exhibitions, Illinois sesquicentennial of statehood, 906
 - information bulletin, 2981

Library of Congress—Continued

- James Madison Memorial Building, construction funds, increase, authorization, report, 16855
- MARC pilot project, final report, 5921
- PL 480 newsletter, 3071
- President's papers index series, 12990
- Public law 480 project, accessions list—
 - Ceylon, 2652
 - India, 2975
 - cumulative list of serials, annual supplement, 16033
 - Indonesia, 2978
 - cumulative list of serials, 12989
 - Israel, 3014
 - Middle East, 3118
 - Nepal, 3185
 - Pakistan, 3240
 - quinquennial index, 5918
- publications—
 - in print, list, 7193
 - price list, 8792
 - quarterly journal, 3355
 - research facilities, 5922
- Library Programs Division, Education Office, functions, programs, etc., 10984
- El Libro colorante de las comidas buenas, 15001
- Libya:
 - economic trends and their implications for United States, 8472
 - mineral industry, minerals yearbook chapter, 13016
- Libyan Desert, Gebel 'Uweinat, habitats, flora, mammals, and wasps, 13423
- Lieciardello, J. J.:
 - effect of repeated treatment with gamma rays on radio-resistance, virulence, and culture characteristics of certain pathogenic bacteria, final report, 7686
 - treatment of poultry with ionizing radiations to destroy salmonellae, 7713
- Lice, cattle lice, how to control them, 5047
- License plates, *see* Automobile license plates.
- Licenses:
 - drivers, statistics, 11645
 - export licenses approved and reexports authorized, list, 2809
 - occupational licensing of nonprofessional manpower, 15999
 - see also* classes of persons to whom, or subjects for which, licenses are issued.
- Lichens, algae, title page and table of contents, 4794
- Licht, L., study, fabrication and testing of foil-bearing rotor support system, 2184
- Lick Run, flood plain information, 12471
- Lieberman, Alvin, air-pollution-monitoring instrumentation, survey, 8608
- Lieberman, Roger A., artificial kidney bibliography, 2608
- Lieder, Nathan, mail survey to collect truck commodity data, 10342
- Liepins, Atis A., asymmetric nonlinear dynamic response and buckling of shallow spherical shells, 11419
- Life:
 - full measure, support of aging research by National Institute of Child Health and Human Development, 13171
 - scientists approach, sources of life, USSR study, 15967
- Life insurance:
 - consumer credit insurance transactions, protect from abuses relative to excessive charges, hearings, 15418
 - credit industry, hearings, 482-483
 - Federal employees group insurance, FPM manual supplement, 2860
 - national service—
 - life insurance act, proposals, hearing, 15336

Life Insurance—Continued

- national service—continued
- modified life, information about conversion and premium rates, holders in V, RS, W, H, and RH programs, 16524
- regular dividend schedules, 8931
- veterans mortgage financing, use of NSLI investment funds, hearings, 9373
- program for veterans of Vietnam era, report, 15378
- servicemen's group—
 - can protect you as a veteran, 2538
 - conversion, 5001
 - program—
 - annual report, 1484
 - legislation needed to avoid serviceman's bearing wartime mortality costs, Veterans Administration, GAO report, 1217
- veterans and servicemen—
 - Government and group programs, proposals, hearing, 15336
 - Government programs annual report, 14960
 - pending bills, proposals, hearing, 15336
- servicemen's group life insurance—
 - dismemberment coverage, amend U.S. Code, report, 15381
 - double indemnity coverage, amend U.S. Code, report, 15380
 - increase, report, 15377
- veterans, survivor benefits, increase, hearing, 12296
- Life saving apparatus, *see* Buoys.
- Life sciences, Air Force research objectives, 1969, OAR, 15016
- Life support systems:
 - astronaut's capabilities to maintain cabin habitability in weightless conditions, study, 16130
 - high altitude and space flights, USSR study, 15966
 - integrated, for aerospace application utilizing radioisotopes for thermal energy, design study, 3799
 - systems approach to evaluating Hydrogenomonas cultures, 7232
 - see also* Environment—Spacecraft.
- Lifetime of learning, 12436
- Lift (aircraft):
 - Apollo command module with offset center-of-gravity positions at Mach numbers to 29, trim attitude, lift and drag, 11480
 - composite-lift VTOL aircraft—
 - conversion from wing lift to rotor lift, wind-tunnel and analytical study, 11471
 - steady-state aerodynamics wind-tunnel investigation, 11460
 - direct lift control system during approach and landing, flight tests, 1080
 - effects of flexibility on lift and pitching-moment characteristics of series of low-aspect-ratio wing-body combinations at transonic speeds, 1051
 - finite-step method for calculation of theoretical load distributions for arbitrary lifting-surface arrangements at subsonic speeds, 13114
 - flight test results of trailing edge flap designed for direct-lift control, 17201
 - indirect viewing system for lifting-body terminal-area navigation and landing tasks, evaluation, 11488
 - jet-augmented, auxiliary-flap, direct-lift-control system, flight determined aerodynamic properties, 10109
 - corrected copy, 13070
 - large jet transport equipped with powered lift, effects of reduced airspeed for landing approach on flying qualities, 1059

Lift (aircraft)—Continued

- lift and drag for slender sharp-edge delta wings in ground proximity, prediction, 4704
- lifting horizontal-axis rotating-wing aeronautical systems (HARWAS), review and evaluation, 13677
- lifting surface theory and tail downwash calculations for V/STOL aircraft in transition and cruise, 3784
- nonlinear lift and pressure distribution of slender conical bodies with strakes at low speeds, 1021
- parasol-wing-body combination utilizing favorable lift interference at Mach numbers from 3.00 to 4.63, aerodynamic characteristics, 1081
- rocket-scrumjet hybrid engines in a lifting second stage, conceptual study, 10135
- shaft face seal with self-acting lift augmentation for advanced gas turbine engines, 7303
- supersonic lifting capabilities of large-angle cones, 17244
- verticraft/powered lift transport category aircraft, tentative airworthiness standards, 12666
- VTOL aircraft in hover, model tests on jet-induced lift effects, 7233
- zero angle of attack, Newtonian aerodynamics for circular cones modified to produce lift, 10124
- 0.3-scale jet-transport model having jet-augmented boundary layer control flap with direct lift control capability, investigation, 11445
- Lift fans, VTOL, inlets without crossflow, theoretical analysis of flow, 6013
- Lifting:
 - lifting surfaces with trailing edge controls, etc., development of 3-dimensional pressure-distribution functions, 17220
 - M1-L body with inflatable and rigid afterbody, large scale wind-tunnel investigation, 17226
 - safe lifting, proper way to lift, 14447
 - weightlifting provisions for women by State, 15356
- Light:
 - attenuation of visible light by falling snow, 15038
 - brightness of flashing beacon, discrimination of increases, 1029
 - differential effects on photosynthesis and nitrogen metabolism in *Chlorella pyrenoidosa*, 16574
 - effect of photoperiod at low light intensities on growth of 4 sedges, 9854
 - evaluation of forest canopies by photography, 1576
 - flashes, pupil size and visual performance, analysis of discomfort in use of electro-optical aids, 8577
 - high power, pulsed, visible light sources, program to evaluate dye lasers, 11418
 - influence on yellow birch regeneration, 11184
 - low-level red and white, near visual acuity under, 3715
 - scattering in aqueous solutions, 8416
 - two-flash thresholds as a function of flash luminance and area, 7726
- Light lists, *see* Lights and lighting.
- Light traps, *see* Insect traps.
- Light water reactors, *see* Reactors (atomic).
- Lighthouse Service, retired pay, increase, hearings, 1706
- Lighting, *see* Lights and lighting.
- Lighting equipment, *see* Lights and lighting.
- Lighting fixtures, electrical lighting fixtures, 1962-67, shipments, patterns of industrial growth, 16641
- Lightle, Paul C., brown-spot needle blight of longleaf pine, 14263

- Lightner, Lee M., preventive periodontic treatment procedures, results after 2 years, 3706
- Lights and lighting:
 airfield, evaluation of Air Force portable system of lighting, 15694
 airports, installation details for runway centerline and touchdown zone lighting systems, 11047
 approved airport lighting equipment, 1849
- Coast Guard lists—
 Atlantic and Gulf Coasts, and Antilles, 6536
 Atlantic coast, local, 5280
 Great Lakes, 5282
 Mississippi River system, 5283
 Pacific Coast and Pacific Islands, 5281
- control light, Federal item identification guide, 8119
 economy approach, lighting aids, 15683
 electric lighting fixtures, current industrial reports, 229
 fixtures, Federal item identification guides for supply cataloging, supplements, 2846
 improved illumination of dental treatment room, 11900
 lights, Federal item identification guide, 10947
- Naval Oceanographic Office, list—
 Baltic Sea with Kattegat, etc., 2336, 8753, 17303
 British Isles, English Channel and North Sea, 6128, 14729
 Europe and Africa, west coasts, etc., 2335, 8751, 16303
 Greenland, North and South America, east coast, etc., 2334, 8750, 16301
 North and South America, west coasts, etc., 6127, 13264, 17301
 Norway, Iceland, and Arctic Ocean, 1246, 8752, 17302
 Pacific Ocean, western, etc., 1245, 7373, 16302
- Navy design manual, changes, 4818
 relation of signal light intensity to physiologic end point during +G_z acceleration, 88
 obstruction marking and lighting, FAA standards, change, 5595
 step-function illumination, scattered-field response of a linear array, 10260
 studies of signal light brightness, assessment of Broca-Sulzer phenomenon via inter- and intra-modality matching procedures, 10582
 taxiway centerline lighting system, 5598
 tree shadow pattern and illumination measurements within clearcut strips and irregular openings in true fir forest, 4320
 trip lights and reflectors, comparison, 980
 underwater visibility of colors with artificial illumination, 7199
see also Electric lamps.
- Lignin, and its uses, 17018
- Lignite, properties, application of statistical response surface fitting in predicting, 5959
see also Coal.
- Lim, B. H., mineral industry of Japan, 4623
- Lima, Carlos J. Aguilar, *see* Aguilar, Carlos J.
- Limb radiance calculation approach for model atmospheres containing horizontal gradients of temperature and pressure, 17242
- Lime:
 mineral industry survey, monthly, 3072
 minerals yearbook chapter, 943
 trade and tariff information, summaries, 13500
- Limeade, frozen, concentrate, U.S. standards for grades, 4111
- Lime-soda sintering, producing alumina from clay, methods, 16099
- Limestone:
 Aguada, of northwestern Puerto Rico, 4354
 crushed limestone, data report, 12558
 strength and deformation properties at various loading rates, 6907
- Limitations (law):
 District of Columbia, amend statute of limitations of civil actions arising from unsafe property improvements, report, 12180
 private and public ownership of lands, differentiation, Federal reclamation laws, acreage limitation, amendments—
 hearing, 14039
 report, 16876
- Limon, Puerto, survey under Harbor survey assistance program, 13256
- Lin, Sein, relief, 6746
- Lin-Fu, Jane S., hemolytic disease of fetus and newborn due to RH immunization, 13777
- Lina, Lindsay J., influence of angle of glide slope on accuracy of performing instrument approaches in simulator, 1071
- Linares de Sapi, Alga, cultural chronology of Gulf of Chiriqui, Panama, 1382
- Lincoln, Abraham:
 Ford's Theatre and House Where Lincoln Died, general information, 14703
 House Where Lincoln Died, poster, 17288
 Lincoln, George A., nomination, hearing, 4070
 Lincoln, J. Virginia, abbreviated calendar record, 4225
 Lincoln, R. S., discrimination of increases in brightness of flashing beacon, 1029
 Lincoln, Abraham, Birthplace, National Historic Site, *see* Abraham Lincoln Birthplace National Historic Site.
- Lincoln Back Country Wilderness in Montana:
 designate as wilderness area, proposal, hearings, 4085, 6792
 establish, report, 10843
- Lincoln County, Ark., community profile, 15575
- Lincoln County, N. Mex., geology of Mockingbird Gap quadrangle, 749
- Lincoln County, Wyo., Fort Hill quadrangle, geology, 9902
- Lincoln Memorial, general information, 4803
- Lindane, questions of safety involving uses of lindane pesticide pellets, GAO review, 5690
- Lindjerd, Haakon, nomination, hearings, 12286
- Lindow, Herbert, A., selling in Chile, 10653
- Lindsay, Ian R., acute somatic effects in primates to 400 MeV, 82
- Lindsey, Jefferson F., III;
 lunar surface transmission loss for Apollo astronaut, 1129
 performance characteristics of Apollo astronaut backpack antenna, 8615
- Linear accelerators, *see* Accelerators.
- Linear equations, *see* Equations.
- Linear programming:
 approximating properties of linear models for input-output descriptions, 10074
 demonstration of input-output analysis, evaluating economic structure of a rural area, 12407
 hand-printed input for on-line systems, 7228
 mode identification by adaptive simulation, 1009
 operations research techniques for improving returns from mine products, 5956
 visual and motion in-puts, experiments and a model for pilot dynamics, 10076
- Linear systems:
 stability indicative function, for linear systems with multiple delays, determination, 6024

- Linear systems—Continued
using transition matrices, transient vibration analysis, 1035
- Linear wave transformation in inhomogeneous magnetoactive plasma, 16613
- Linearized theory of stagnation point heat and mass transfer at hypersonic speeds, 13078
- Linens, industry in Puerto Rico, data pertinent to review of minimum wage rates, 11772
- Lines, *see* Cables.—Telephone lines.
- Lingeman, Carolyn H., comparative morphology of hematopoietic neoplasms, 16259
- Linings:
canal, investigations for use of plastic films, 16392
unreinforced concrete tunnel, structural design data, 16097
- Link, James M., differential thresholds for motion in periphery, 16145
- Linking man and spacecraft, 11422
- Linking reserve creation and development assistance:
hearing, 10689
staff study, 6566
- Linn County, Iowa, Squaw Creek, flood profile study, 8343
- Linseed, *see* Flaxseed.
- Linters, *see* Cotton.
- Lipids:
micellar formation by naturally occurring lipids, and properties of reconstituted lipid membranes, studies, 796
turnover of lipids and lipoproteins, conference proceedings, 11540
- Lipoproteins, turnover of lipids and lipoproteins, conference proceedings, 11540
- Lipper, Harold W., helium symposia proceedings in 1968, a hundred years of helium, 17172
- Lipps, A. J., Jr., evaluation of vented-to-coolant designs for sodium-bonded carbide fuel rods, 10567
- Lipset, Seymour M., American student activism in comparative perspective, seminar on manpower policy and program, 5888
- Liquefied gas, *see* Gas.
- Liquid fuels:
development of crash-resistant flammable fluids system for UH-1a helicopter, 10554
Federal test method standard, 12652
see also Fuel oil.
- Liquid hydrogen, *see* Hydrogen.
- Liquid metals, *see* Metals.
- Liquid nitrogen, *see* Nitrogen.
- Liquid oxygen, *see* Oxygen.
- Liquid propellants, *see* Propellants.
- Liquid-vapor interface configurations in toroidal tanks during weightlessness, errata, 1063
- Liquidation, 12-month, nonrecognition of gain or loss on sales, reports, 453, 1694
- Liquids:
behavior of liquid surfaces during evaporation and condensation, 2012
beryllium, viscosity, USSR study, 15941
ferromagnetic, study, 14579
finite thickness elastic solid tubes enclosing liquid cylinder of interest, effect, 10265
impulsive motion of on flat plate pulsed with uniform heat flux, 10151
kraft green liquor used to control deterioration of pulp chip, 15764
liquid impact erosion, multiple, experimental and analytical investigations, 5982
liquid state and intermolecular forces, 5762
monomolecular films of polydimethylsiloxanes on organic liquids, 7384
natural frequency in annular cylinders under low gravitational conditions, 14648
pipeline safety, hearing, 6720
- Liquids—Continued
plates sealing an incompressible liquid, 3746
pump cavitation performance for various liquids, liquid temperatures, and rotational speeds, method for predicting, 13096
quiescent, behavior of large particles falling in, 5719
volatile organic, effect of adsorbed monomolecular films on their evaporation, 16317
wetting, effect of flow rate on dynamic contact angle, 7285
- Liquors:
alcohol, effects at 3 simulated aircraft cabin conditions, 7725
alcoholic beverages, removal of restrictions under title 1 of Public law 480, 387
importation of distilled spirits, wines, and beer, code of Federal regulations, 11300
intoxicating, code of Federal regulations, 8225
laws—
and regulations for retail dealers, 4412
compilation, 1684
- Liquors (liquid), *see* Liquids.
- Lishka, Raymond J.:
water—
metals, 14779
surfactant, report of study, 1333
- List, Robert J., preliminary meteorological data summary, route 17, 613
- Lists, *see* subjects of lists.
- Litant, I., leak detection in hermetically sealed devices, 17225
- Litchford, G. B., study of advanced electronic applications to aeronautical display and control problems, 4670
- Litecky, Paul A., franchising, 4923
- Literature:
education of American Indians, survey of literature, 8082
USSR, Party control at regional level, 5843
violence in literature, character analysis, 9451
see also Russian literature.
- Lithium:
annular lithium-drifted germanium detector for studying nuclear reaction gamma-rays, 1001
determination of oxygen by vacuum distillation method, 8646
effects of losses on magnetic and crystallographic properties of spinel lithium ferrite, 7307
lithium drifted silicon—
detectors as low-energy photon spectrometers, 7258
semiconductor detectors irradiated, resolution changes, 1118
solubility of refractory metals and alloys in, 11417
- Lithium hydride, lithium hydride and tungsten spherical media, transport study of neutron and photon attenuation through, 4719
- Lithium hydroxide, dilute, solution at 300°C, growth characteristics of iron oxide films generated in, 1261
- Lithographic prints, *see* Lithographs.
- Lithographs:
Air Force lithograph series, 11897, 13621-624
announcement and order form, 7412
Marine Corps combat lithograph series, 12992
your Navy, from viewpoint of nation's finest artists, lithographic prints, announcement and order form, 16320
- Lithosphere, injection of gas into lithosphere at National Reactor Testing Station, Idaho Falls, Idaho, 13696

Lithuania:
 public health workers confer, 5875
 scientific progress in Lithuanian SSR,
 USSR survey, 15933
Lithuanian SSR, see Lithuania.
Litigation, see Actions at law.
Litovitz, T. A., light scattering and ultra-
 sonic investigations of relaxation in
 aqueous solutions, 8416
Litsas, John, employee compensation, 1966,
 in private nonfarm economy, 14458
Little, Elbert, L., jr., trees of Jost Van Dyke,
 British Virgin Islands, 15766
Little, John L., some evolving conventions
 and standards for character information
 coded in 6, 7 and 8 bits, 10179
Little, Silas:
 local seed sources recommended for lob-
 lolly pine in Maryland and shortleaf pine
 in New Jersey and Pennsylvania, 17049
 ten-year effects from row thinning in
 loblolly pine plantations of eastern
 Maryland, 7008
Little, Vija Z., effects of acceleration on
 human performance and physiology, with
 special reference to transverse G, 81
Little Calumet River:
 and tributaries, Ill. and Ind., flood plain
 information, 15658
 pollution of interstate waters, Ill.-Ind.,
 conference proceedings, 11146
Little Elm Creek, Trinity River basin, Tex.,
 compilation of hydrologic data, 14340
Little Leroux Spring, relation of precipitation
to flow on San Francisco Peaks, Ariz.,
 9849
Little Papillion Creek and South Branch,
 flood plain information, 9677
Little River, flood plain information, 15656
Little River County, Ark., community profile,
 15376
Little River, S.C. to Rio Grande, Tex., and
Antilles, light list, 6536
Little Rock, Ark., area wage survey, 4599
Little Valley Creek, flood plain information,
 9662
Little Women Centennial, Louisa May Alcott,
 annotated selected bibliography, 11363
Littman, F. E., research on porous glass
 membranes for reverse osmosis, 2007
Littoral, see Coasts.
Liuzzo, Joseph A., radiation pasteurization
 of Gulf shellfish, 16625
Livengood Gold Placer district, Alaska, po-
tential for lode deposits, 11233
Liver, postoperative hepatic necrosis and
halothan anesthesia, study of possible as-
sociation, 7344
Liver flukes, sheep, general information,
 13593
Livestock:
 animal industry, publications, price list,
 8788
 claims, packers and stockyards act can help
 you recover losses, 13598
 farmers' pesticide expenditures, 566
 foreign agriculture circulars, 2902
 industry in—
 Alaska, 8830
 Ireland, 11154
 insecticides, guide, addenda, 10477, 11862
 inventory, 6311
 livestock and meat situation, 3080
 market news, weekly summary and sta-
 tistics, 3081
 marketing, list of references, 10165
 meat animals, farm production, etc., 8906
 packers and stockyards act as it applies
 to auction markets, 11878
 regulatory establishments, circuits, and
 officials, 3608
 slaughter—
 commercial slaughter, meat and lard
 production, etc., 8905
 monthly report, 3082
 statistics, 1968, supplement, 13607

Livestock—Continued
 tuberculosis eradication, State-Federal co-
 operative program, 1968 fiscal year, sta-
 tistical tables, 7571
 western range and livestock, monthly re-
 port, 3602
see also Cattle—Food for livestock.
 Living conditions, *see* Cost and standard of
 living.
 Living expenses, *see* Cost and standard of
 living.
 Living in space, 11424
LMFBR (Liquid Metal Fast Breeder Reac-
tor), see Reactors (atomic).
LMRDA, see Labor management reporting
and disclosure act.
Load (mechanics):
 aerodynamic, on deployed canard surfaces
 and rocket nose section of Apollo launch
 escape vehicle, 13081
 airdrop, reference data, Army technical
 manual, 3781
 axisymmetric and cylindrical isostabiloids,
 17206
Chinook, CH-47A, engine load sharing,
 3785
 computing span loads and stability deriva-
 tives due to sideslip, yawing, and roll-
 ing for wings in subsonic compressible
 flow, theory, 2239
 design of conical shells subjected to anti-
 symmetric loadings, 13143
 effect—
 aluminum size and loading on burning
 rate of solid propellants under ac-
 celeration, experimental investigation,
 16163
 test machine extensional rigidity on
 initial buckling load for unreinforced
 circular cylindrical shells in axial
 compression, 13670
 low temperature fracture behavior of
 notched and welded plates, 1376
 elastoplastic stress-strain behavior at
 notch roots in sheet specimens under
 constant-amplitude loading, 11468
 fatigue of notched Ti-8Al-1Mo-1V ti-
 tanium alloy at room temperature and
 550 F (560 K) with flight-by flight
 loading representative of supersonic
 transport, 11486
 finite-step method for calculation of theo-
 retical load distributions for arbitrary
 lifting-surface arrangements at sub-
 sonic speeds, 13114
 granite, basalt, limestone and tuff,
 strength and deformation properties at
 various loading rates, 6907
 live floor loads and fire loads in modern
 office buildings, survey and evaluation
 techniques, 2282
 load—
 capacity and stiffness, experiments on
 rotating externally pressurized, air
 journal bearings, 10123
 loss from rock-bolt anchor creep, 4641
 maximum load prediction for sandwich
 plates, 11951
 mechanical behavior of boron-epoxy and
 glass-epoxy filament wound cylinders
 under various loads, 7256
 minimum induced drag, and correspond-
 ing loading, of nonplanar wings, nu-
 merical solution, 2197
 oblique loading of unidirectional fiber com-
 posites, shear loading, 6455
 palletizing domestic unit loads of weapon
 components, military standard, 16929
 plane-stress analysis of edge-stiffened rec-
 tangular plate, subjected to boundary
 loads, etc., errata, 2182
 propellant slosh loads, NASA space vehicle
 design criteria, structures, 2214
 Rayleigh step journal bearing, incom-
 pressibly lubricated, infinite-length solu-
 tion, 1096

Load (mechanics)—Continued

- thermal ram, new concept for load application, 13672
- turbine blade loading, advanced concepts to increase, experimental investigation, 2205, 8599
- water, landing loads of Apollo spacecraft models, effects of bottom-structure flexibility, 7280
- XB-70 aircraft, canard loads, canard buffeting, and elevon and wing-tip hinge moments, including comparisons with predictions, flight measurements, 13132
- Load Lines, International Convention on, *see* International Convention on Load Lines.
- Loader (mechanical):
 - scoop-type, types and capacities, military standard, 542
- Loading, *see* Load (mechanics)—Unloading and lading.
- Loading ramps, *see* Ramps.
- Loan associations, *see* Federal savings and loan associations.

Loans:

- air carriers, Government guaranty, amend act, hearing, 404
- amortization tables for home mortgages insured under national housing act, 635
- automobiles as loan security, 11055
- bank lending practices, quarterly survey of changes, 8246
- commercial and industrial, outstanding by industry, 2675
- crime control and safe streets act, grants and loans awarded, 1968, list, 5878
- development lending activities, U.S. participation, investigation and study, authorization, report, 375
- disaster—
 - Federal Government's programs, hearing, 12288
 - program administration in connection with 1964 Alaska earthquake, GAO report, 9873
 - to restore or replace businesses and homes through SBA, 1377
- District of Columbia, banks, savings and loan associations, and other regulated lenders, interest on loans, charge or deduct in advance—
 - hearing, 12211
 - report, 12183
- Economic Development Administration—
 - business development loans, who can borrow, how to apply, 1797, 12388, 16939
 - grants and loans for public works and development facilities, 12390, 16940
- economic opportunity loans, impact, on rural residents, South Carolina, Ozarks, Mississippi delta, 1800
- education, more opportunity, college degree, training for job, Office of Education sponsors programs that can assist you, 15636
- educational scholarships, loans, and financial aids, 7661
- emergency student loan act of 1969—
 - hearing, 12311
 - reports, 15249, 15368, 16788
- Farmers Home Administration—
 - economic opportunity loan program for low-income rural families, administration and effectiveness, GAO report, 14304
 - emergency credit revolving fund, temporary funding, report, 9412
 - Indian tribes and tribal corporations, provide loans for acquisition of lands, report, 15372
 - insured operating loans to low-income farmers and ranchers, authorization, hearing, 14014

Loans—Continued

- Farmers Home Administration—Con.
 - operating loan program 1965-66, new borrowers compared with those obtaining loans from banks and production credit association, 9640
 - rental co-op housing in rural areas, 7607
 - rural housing, 8976
 - to associations for water and waste disposal, provide flexible interest rates, hearing, 13911
- farmers home insured notes, for building rural America, 11884
- Federal emergency incentive payments to lenders under insured student loan program, authorize, report, 15368
- Federal Housing Administration—
 - dealer and contractor guide, property improvement loans, 14388
 - for financing purchase of mobile homes, hearings, 15421
 - title 1 property improvement loans, prepaid or refinanced unearned charge, tables of factors for use in determining, 638
- Federal reserve rulings regarding loan production offices and purchases of operating subsidiaries, hearings, 394
- for nonfarm enterprises, 7612
- high school and college work-study programs, do your own thing and stay in school, 5536
- home loan financing for veterans, use of NSLI funds, hearings, 9373
- HUD grants and loans to meet insurability requirements of your property, 15836
- loan guaranty benefits for veterans with service since Jan. 31, 1955, summary, 7569
- loans and discounts of farm credit banks and associations, annual report, 12577
- maximum rate of interest on ship loans and mortgages, hearings, 1705
- monetary restraint, borrowing, and capital spending in 1966 by small local governments and State colleges, 4277
- more education, more opportunity, college degree, training for a job, Office of Education sponsors programs that can assist you!, 5548
- national defense student loan program, 1969-70 allocations of Federal funds, 14052
- new sources of mortgage funds are needed to finance construction of housing (address), 12807
- public works and economic development act of 1965—
 - administration of sec. 702, hearings, 416
 - amendments of 1969, hearings, 10802
- recreation enterprises, 7606
- Reed act loan fund, Federal unemployment account, Dec. 1954-Dec. 1968, operations, 10371
- reporting foreign grants, loans, and credits, regulations, 2523
- role of banks in Truth in lending (remarks), 8250
- Rural Electrification Administration program, statistical reports, 2441, 17364
- rural housing, 4229
- savings and home financing, 1968, source book, 15706
- Small Business Administration—
 - economic opportunity loan program, 7447
 - shows need for improved administration and increased effectiveness, GAO report, 8337
 - guarantee, clarify authorization, report, 13993
 - lease guarantee program, staff review and analysis, 4073

- Loans—Continued**
 student loan program—
 health professions, standard repayment plans, 4900
 7% payment tables and amortization schedules, 6902
 students, health professions program, guide to repayment, deferment, cancellation, 1201
 Trust Territory of Pacific Islands economic development loan fund, establish, report, 16875
 veterans, home-buying guide, 6342
 veterans home loan program—
 correct obsolete references in laws, amend United States Code, law, 342
 guaranty entitlement, increase, amend U.S. Code, hearing, 499
see also Banks and banking—Federal savings and loan associations—Mortgages—Revolving funds.
- Loats, Harry L., Jr.:**
 correlation study of simulation of Gemini extravehicular activity with flight results, 5970
 study of astronauts ability to maintain life support systems and cabin habitability in weightless conditions, 16130
- Loblolly pine, *see* Pine.**
- Local board memoranda, 3084**
Local government, *see* Government.
Local public agency letters, 3086
Local transit:
 directory of urban transportation research and planning projects, 14394
 National Capital Transportation Act of 1969, Federal contribution for transit development program, report, 12257
 operating employees, union wages and hours, 8550
 Puerto Rico industry, minimum wage rates, data pertinent to review, 13525
- Location identifiers, airport, etc., handbook, 3087**
- Lochridge, Gordon K., endocrine-metabolic responses to parachuting, 103**
- Lock, Wilton P., flight investigation of fluidic autopilot system, 13099**
- Locke, Ah Mee, relief, 6745**
Locke, Amy, *see* Locke, Ah Mee.
- Lockerman, Robert C., some summer oceanographic features of Leptev and East Siberian Seas, 13267**
- Lockette, Emory W., economic data for equal employment opportunity program, Phoenix, Ariz., 11649**
- Lockhart, S. C., railroad accident, report, 11103**
- Locks (hydraulic engineering):**
 Robert S. Kerr Lock and Dam, Arkansas River, hydraulic model investigation, 605
see also names of locks, e.g., Dardanelle Lock.
- Locks and keys, keys, Federal item identification guide, changes, 5489, 14087**
- Locomotion:**
 fish, eddy formation and boundary layer, USSR study, 15931
 man's capability for self-locomotion on the moon—
 detailed report, 16128
 summary report, 16129
- Locomotives, inspection, laws, rules, and instructions, 4273**
- Lode mining, *see* Gold.**
- Lodgepole needle miner, infestations east of Sierra crest, 681**
- Lodgepole pine, *see* Pine.**
- Loeffler, Martin H., relief, 9269, 16728, 16842**
- Loesch, Harrison, nomination, hearing, 8075**
- Lof, George O. G., technical cooperation on solar distillation development program of Spain, 4403**
- Lofgren, B. E. land subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif., 14345**
- Lofgren, G., effect of growth parameters on substructure spacing in NaCl ice crystals, 9030**
- Logan, William B., training retail salespeople, 1378**
- Logan County, Ark.:**
 community profile, 15577
 Scranton and New Blaine quadrangles, geology, 4363
- Logan project, Logan River, Utah, development, owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718**
- Logging, *see* Lumbering.**
- Logic (symbolic and mathematical):**
 logic foundations and techniques, computer based biomedical information system, 5133
- Logistics:**
 Army logistician (periodical), 15033
 Dod Contract Management Conference, Contract Administration Services, logistic system interfaces, 1781
 item logistics data records, standard guides for preparation of proposed, etc., 6980
 management reporting procedures, ARNG budget computation and summary report, 17272
see Military Art and science.—Naval art and science.
- Logs:**
 calculation of tree volumes with interior defect, NETVSI computer program, 4323
 Indiana sawmills receive 232 million board feet of saw logs in 1966, 4314
 plant quarantine import requirements of foreign countries, 14977
 red alder pulpwood and saw logs, marketing, 12700
 southern pine log grades for yard and structural lumber, 1933
 sugar maple tree yields by saw log grade, estimate by use of d.b.h., diameter at breast height, and butt log grade, 4313
 veneer-log production and consumption, North Central region, 4333
see also Scale (logging).
- Logsdon, Donald F., jr.:**
 determining plasma volume, blood volume, and red cell mass with iodine-125, 90
 insulin-inhibitory factor in human blood, role in charcoal radioimmunoassay, 9008
 modified 59 Fe ferrokinetic procedure, 13632
 red cell mass, red cell survival, and total blood volume with chromium-51, 1541
 simultaneous measurement of blood parameters using radiochromium-labeled red cells and radioiron-labeled plasma, 3712
- Lohner, Richard C., marine magnetic and bathymetric profiles in Gulf of California, 13257**
- Lokerson, Donald C., spacecraft analog-to-digital conversion system employing MOSFETS, 11457**
- Lomax, Harvard, on some numerical difficulties in integrating equations for one-dimensional nonequilibrium nozzle flow, 8639**
- Lone Tree Creek, flood plain information, 12459**
- Long, Roscoe M., soil survey, Hughes County, Okla., 6243**
- Long Beach, Calif.:**
 area wage survey, 16017
 port, general data, 6906
- Long Island, N.Y.:**
 hydrologic effects of 1962-66 drought, 7062
 hydrology and some effects of urbanization (series), 15806
 precipitation regime, 15806
- Long Island R.R.:**
 accident, report, 9791
 emergency board report, 10992

INDEX 1969

- Long leaf pine, *see* Pine.
 Longitudinal stability, *see* Stability of aircraft.
 Longleaf pine, *see* Pine.
 Longshoremen :
 longshoring—
 accidents, 1966-67, analysis of injuries, 7168
 maritime safety digest (periodical), 3103
 safety and health regulations, 11333
 Longshoring, *see* Longshoremen.
 Longtime performance of trussed rafters, initial evaluation, 685
 Lonoke County, Ark., community profile, 15378
 Lonsdale, H. K., study of rejection of various solutes by reverse osmosis membranes, 11285
 Loo, Gon Ming, *see* Chinn, Yau Ming.
 Looking back, and ahead, 779
 Loomis, Robert M., fuel evaluation for Missouri pine plantation released by aerial spraying, 4310
 Loomis, William R., lubricants for inerted lubrication systems in engines for advanced aircraft, 14649
 Looms, broadwoven goods, summary of looms in place, Dec. 31, 1968, current industrial reports, 9125
 Loopers, 1968 hemlock loopers project, Mount Baker National Forest, 14266
 Loops :
 Cb-12r pumped sodium loop, 999
 closed-loop tracking tasks, human response, synthesis, 1074
 cobalt alloy, two-phase mercury loop, corrosion, 13109
 lubrication with some polyphenyl ethers and superrefined minerals oils in 600°F (316°C) inerted vane pump loop, 7273
 Loose-housing system (covered free stall) for 124 dairy cows, 6392
 Looting, *see* Pillage.
 Loper, L. R., relationship between optical distortion and binocular depth perception, 10113
 Lopez, Juan A., relief, 4042
 Lopushinsky, William, portable apparatus for estimating stomatal aperture in conifers, 12693
 Loran :
 A table—
 Gulf of Mexico, rate 3H1, 14731
 south Pacific, rate 2L2, 14732
 C D phase corrections over irregular inhomogeneous terrain, simplified computer methods, 12570
 C table—
 east coast, U.S., pair SS7-X, 14733
 north Pacific, pair SL2-X, 2338
 northwest Pacific, pair SS3-Z, 14734
 Lorenz, Walter C., coal, Pennsylvania anthracite, 17170
 Lorman, Alfred, relief, 7869, 9391
 Los Alamos Scientific Laboratory, 25 years of service (remarks), 6479
 Los Angeles, Calif. :
 area wage survey, 16017
 concentrated employment program, effectiveness and administrative efficiency, GAO report, 17063
 elderly Mexican-American, Federal programs and services, availability and usefulness, hearings, 12282
 health services to older Americans, costs and delivery, hearings, 8050
 oil spillage and flood damage, hearings, 7970
 port, general data, 6906
 Watts riot, civil and criminal disorders, investigation, hearings, 425
 Los Angeles County, Calif. :
 community action program, effectiveness and administration, GAO report, 17060
 Los Angeles County, Calif.—Continued
 disadvantaged preschool children, Federal programs for benefit of, GAO report, 5687
 Neighborhood Youth Corps program—
 administration by Labor Department, GAO review, 1950
 effectiveness and administrative efficiency, GAO report, 15781
 work experience and training, administration and effectiveness of project, etc., GAO report, 11203
 Los Padres National Forest, general information, 12683
 Loss, F. J. :
 coupling of fracture mechanics and transition temperature approaches to fracture-safe designs, 10270
 dynamic tear test definition of temperature transition from linear elastic to gross strain fracture conditions, 6147
 Loss factor and resonant frequency of viscoelastic shear-damped structural composites, 5976
 Loudness, *see* Sound.
 Louisiana :
 Agricultural Stabilization and Conservation Service, annual report, 8953
 census of business, 1967, retail trade, area statistics, 11987
 climate at seed source affects longleaf pine performance, 8296
 climatological data, 2662
 dealers in trout and pondfishes, list, 10385
 electric rate book, 11068
 Federal outlays, report of Federal Government's impact by State and county, 9550, 9601
 landings—
 annual summary, 3911
 fish and shellfish, 3092
 marketing woody ornamentals, practices and trends of nurseries, 12412
 mineral industry, minerals yearbook chapter, 2150
 plant materials annual progress report, 16436
 pollution of Interstate waters of Pearl River, conference proceedings, 11147
 postal map, 6161
 precipitation data, hourly, 2962
 southern Coastal Plain and Blackbelt areas soil survey interpretations for woodlands, 16440
 water resources development by Army Corps of Engineers, 11005
 Louisiana & Arkansas Ry., accident, report, 9792
 Louisville, Ky. :
 area wage survey, 7184
 Interstate Air Quality Control Region report for consultation, 17355
 Louisville and Nashville RR. :
 accident, reports, 9796, 11092, 11097
 emergency board report, 4191
 Loustaunau, Cherie :
 foreign trade regulations—
 India, 10654
 Saudi Arabia, 15172
 Turkey, 15169
 Loux, P. C., seismic interference and reciprocity for HE row charge, 13705
 Love, Esther M., seafaring wage rates, Atlantic, Gulf and Pacific districts, 8571
 Love, Richard II., empirical equation for determination of maximum side-aspect target strength of individual fish, 10220
 Low dose measurements with thermoluminescent dosimeters, 7682
 Low rent housing, *see* Housing.
 Lowder, Enoch A., sand and gravel conveyance, 13973
 Lowe, Wyman C., contested election, report, 7901

- Lowenberg, A. L.:
recommended emergency welding procedure
for temporary repairs of ship steels, 10358
study of factors which affect adequacy of
high-strength low-alloy steel weldments
for cargo ship hulls, 16400
- Lowenthal, Marvin J., harmonic analysis of
precipitation, 1566
- Lower Klamath National Wildlife Refuge,
Klamath Basin national wildlife refuges,
general information, 16446
- Lowery, Virgil W., progress in reactor phys-
ics, 5185
- Lowson, M. V.:
studies of helicopter rotor noise, 6453
theoretical studies of compressor noise,
8589
- Loyson, P., investigation of recirculation by
stratospheric air samplers, 7679
- LSD, *see* Lysergic acid diethylamide.
- Lu, Chin H., basic studies of scale control,
15588
- Lubbock, Tex., area wage survey, 11342
- Lubowitz, H. R., experimental feasibility
study for preparation of thermo-oxidatively
stable Pyrrone laminates, 13052
- Lubricants:
advanced ester, effect of oxygen concentra-
tion in bearing tests at 400° and 450°F,
13082
Federal item identification guides for sup-
ply cataloging, supplements, 2847
Federal test method standard, 12652
for inerted lubrication systems in engines
for advanced aircraft, 14649
graphite fluoride as solid lubricant, pre-
liminary investigation, 7274
lubricating oils, Federal item identifica-
tion guide, 8127
change, 10948
neopentyl polyol ester—
determination of ester composition, 6141
wear and friction studies, 1267
preservative-lubricant for small arms, 1265
rare earth fluorides and oxides, exploratory
study of their use as solid lubricants at
temperatures to 1800°F (1000°C),
11496
sales of lubricating and industrial oils
and greases, 1967, current industrial
reports, 236
synthetic paraffinic base—
lubricants, fatigue life of 120-MM bore
ball bearings at 600°F with, 1079
oils in short term bearing tests from
400° to 500°F, effect of oxygen con-
centration on performance, 10111
thermal stability and friction of disulfides,
diselenides and ditellurides of molybde-
num and tungsten in vacuum (10^{-6} - 10^{-4}
torr), 10110
thin-film solid, pressure effects on friction
coefficients of, 1266
- Lubricating oil, *see* Lubricants.
- Lubrication:
fire control instruments, military standard,
551
in turbulent regime, 3794
lubricants for inerted lubrication systems
in engines for advanced aircraft, 14649
NASA contributions to fluid-film lubrica-
tion, survey, 10101
with some polyphenyl ethers and super-
refined mineral oils in 600°F (316°C)
inerted vane pump, 7273
- Lucas, John T.:
Department of Defense market for wooden
pallets, 7021, 15769, 17046
use of wooden pallets in brewing industry,
17047
- Luce, Phillip A., guerrilla warfare advocates
in U.S., report, 4004
- Luce, Stephen B., papers in Library of Con-
gress, register, 11362
- Ludlow Elementary School, Philadelphia,
right spirit all year long, 5552
- Ludwig, C. B., study of air pollutant detec-
tion by remote sensors, 13045
- Ludwig, Lawrence P.:
pump and seal characteristics of helical
groove geometry incorporated in com-
bined bearing and pump, 10140
torque and leakage rates of various lubri-
cated lip seal designs at peripheral ve-
locity of 120 feet per second, 14647
- Luebke, Robert W., economics of railroad
automobile rack car aerodynamic drag,
12625
- Lueders, H. G.:
experimental investigation of advanced
concepts to increase turbine blade
loading, performance evaluation of—
plain rotor blade with plough type vor-
tex generators, 8599
tandem rotor blade, 2205
- Luffkin, Linwood E., 50-man winter camp at
Tuto, Greenland, 15651
- Luggage, *see* Baggage.
- Luginbill, Philip, Jr.:
developing resistant plants, ideal method
of controlling insects, 15006
suppression of wheat stem sawfly with
resistant wheat, 8990
- Luidens, Roger W., estimate of supersonic
flow field about axisymmetric body with
N wave pressure trace, 1141
- Lull, Howard W., forest atlas of Northeast,
669
- Lumber:
exports, 216-217, 9098, 11979
Federal item identification guides for sup-
ply cataloging, supplements, 2845
green oak, dlp treatment in polyethylene
glycol not effective in preventing sur-
face checking, 12698
imports, 218, 11980
lodgpole pine studs, sawing to reduce
warp, 11181
lumber and—
furniture manufacturing, industry,
trend, 5197
plywood supply, situation report, 11167
plant quarantine import requirements of
foreign countries, 14977
precompression effect on sliced wood, 1/2
and 1 inch thick, 1910
price increases, bearing, 9338
prices—
and shortages, effect on Nation's goals,
subcommittee report, 10822
investigation, authorization, report,
6666
pricing and production—
effect on Nation's housing goals, report,
print as Senate document, report,
10851
problems, bearings, 8055
production and mill stocks, current in-
dustrial reports, 232
publications, price list, 10292
shrinkage and footage loss from drying
hard maple lumber, 4324
southern pine—
dimension lumber, no. 2 dense kiln-dried,
properties, 687
lumber, combined effects of drying, sur-
facing, and trimming on grade and
volume, 1927
southern yellow pine tree overruns and
lumber width distributions, 1935
structural lumber, some nondestructive
parameters for prediction of strength,
4322
yard and structural, southern pine tree
grades, 1934
see also Logs.
- Lumbering:
cable logging terms, glossary, 8280
mechanics of running skyllines, 8309

Lumbering—Continued

- operational test of natural-shaped logging balloon, 4318
- single-span skylines, planning, 693
- Lumbermen, publications of interest to, Hst, 4298
- Luminance, *see* Light.
- Luminescence, dosimeters, low dose measurements, 7682
- see also* Light.
- Luminosity, yellow lenses in Air Force operations, 3701
- Luna County, N. Mex., ground water availability near Arena, 12758
- Lunar charts and mosaic series, U.S.A.F., 5086
- Lunar landings:
 - Apollo—First manned lunar landing, color prints, 14593
 - Apollo—Man on the moon, color print, 14594
 - Apollo manned lunar landing GOSS, ground operational support systems, mission profile (colored poster), 5968
 - prototype lunar module landing gear, full-scale dynamic landing-impact investigation, 7251
 - relationship between optical distortion and binocular depth perception, 10113
- Lunar modules, scaled jet erosion experiments, 8612
- Lunar Orbiter, *see* Spacecraft.
- Lunar orbits, *see* Orbits.
- Lunar roving vehicles, acceptance testing lunar vehicles, concept, 2236
- Lunar satellites, *see* Satellites.
- Lunar surface, *see* Lunar topography.
- Lunar topography, lunar surface transmission loss for Apollo astronaut, 1129
- Lunches, *see* School lunches.
- Lunden, Leon E.:
 - bargaining in major symphony orchestras, 12976
 - major collective bargaining agreements—subcontracting, 10014
 - training and retaining provisions, 7170
- Lundin, Charles E., use of thermodynamic properties of metal-gas systems as reduced-pressure standards, 4683
- Lundquist, Arnold L., improved handling methods and layout in affiliated frozen food warehouses, 5049
- Lundry, J. L., numerical solution for minimum induced drag, and corresponding loading of nonplanar wings, 2197
- Lungs:
 - chronic obstructive lung disease, current research, 10th Aspen Emphysema Conference proceedings, 6174
 - chronic respiratory disease, current research, 11th Aspen Emphysema Conference, 1968, proceedings, 6175
 - heart-lung preparation, performance, effect of blood pH and CO_2 tension, 2130
 - rapid (explosive) decompression emergencies in pressure-suited subjects, 2199
 - see also* Pneumoconiosis.
- Luray, Va., ancient lavas in Shenandoah National Park, 5701
- Luria, S. M.:
 - relation of ductility to dynamic stereoacuity, 16066
 - stereoscopic and resolution acuity with varying field of view, 7201
 - visual acuity under water without face mask, 16069
- Lush, Gerson H., Department of State news letter, 2761
- Lustig, Lawrence K., trend-surface analysis of Basin and Range province, and some geomorphic implications, 7051
- Lutton, R. J., Buggy, preshot geologic and engineering properties investigations, 13704

Luxembourg:

- capsule facts for Armed Forces, 121
- economic trends and their implications for United States, 9993
- establishing business, 10650
- foreign trade regulations, 5288
- Grand Duchy, background notes, 14891
- mutual defense assistance, agreement, 16479
- Luxner, James V., face ventilation in underground bituminous coal mines, 4644
- Lygus, on cotton, how to control, 11870
- Lynch, John H., predictive equations for thermal neutron flux perturbation effects in cylinders, 2249
- Lyndon B. Johnson National Historic Site, establish, report, 15365
- Lynes, Larry L., calculation of compressible turbulent boundary with pressure gradients and heat transfer, 7237
- Lyng, Richard E., nomination, hearing, 5425
- Lynn, James T.:
 - address, Oct. 24, 1969, 16698
 - nomination, hearings, 9452
- Lyon, Robert L., tolerance of spruce budworm to malathion, Montana, New Mexico populations show no differences, 4321
- Lyons, Clarence F., personal and confidential letters from Secretary of State Lansing to President Wilson, pamphlet, 1170
- Lyophobic colloids, *see* Colloids.
- Lyophilization, nonenzymatic browning in model systems containing sucrose, 92
- Lysergic acid diethylamide:
 - effect of LSD on central nervous system, USSR survey, 15905
 - Federal research and regulatory programs, LSD, organization and coordination, report, 6754
- LSD—
 - and marihuana abuse among young people, hearings, 5457
 - some questions and answers, 7421
 - trip or trap?, 8757
- LSD-25, layman's guide to pharmacology, physiology, psychology and sociology of LSD, factual account, 16117
- recent research on LSD, 17352
- tranquilizers and LSD, general information, 7377

M

- M.H.D., *see* Magnetohydrodynamics.
- M.I.T., *see* Massachusetts Institute of Technology.
- MA, *see* Maritime Administration.
- Ma, M. T., power gains for antennas over lossy plane ground, 9723
- MA SP series, 16048–50, 17164–165
- Maag, William L., statistical analysis of high-temperature creep-rate data for alloys of tantalum, molybdenum, and columbium, 16175
- Maahs, Howard G., crystallographic data on selected artificial graphites with comments on role of degree of crystal development in oxidation, 1107
- MAC, *see* Military Aircraft Command.
- Macaca mulatta, *see* Monkeys.
- MacAloney, Harvey J., sugar maple borer, 1907
- McAndrew, Donald W.:
 - fall water supply for Nevada and Federal-State, private cooperative snow surveys, 16422
 - summary of snow survey measurements for Nevada, 6239
- Maeno, capsule facts for Armed Forces, 125
- McBreen, Maureen, high school topic 1969–70, selected excerpts and references, 15224
- McCafterty, James A., Federal offenders in United States district courts, 1495
- McCall, Thomas D., transistor series amplifier, 14762

- McCambridge, William F., incidence of sperm in emerging female mountain pine beetles, 9857
- McCann, Charles R., pulverized-coal flames, flame propagation in absence of recirculation, 5960
- McCann, Howard :
application of automated vehicle registration files to postal O-D surveys, 10343
determination of needed rest area comfort facilities by systems analysis, 10344
evaluation of bias in license plate traffic survey response, 14814
license plate traffic survey, 11646
- McCardell, Abby, Job Corps staff newsletter, 3017
- McCarren, Edward T., water quality and discharge of streams in Lehigh River basin, Pa., 14374
- McCarthy, J. H., Jr. :
gold-bearing jasperoid in Drum Mountains, Juab and Millard Counties, Utah, 9893
mercury in soil gas and air, potential tool in mineral exploration, 4357
- McCarthy, Mary A., comparison of classification of place of residence on death certificates and matching census records, 6208
- McCarthy, Philip J., pseudoreplication, further evaluation and application of balanced half-sample technique, 6209
- McCarthy B-4 and B-5 quadrangles, Alaska, distribution of gold, copper and some other metals, 742
- McCarthy quadrangle, Alaska, cretaceous stratigraphy, summary, 11231
- McCartney, James T. :
microscope system using automated reflectance scanning to study coal components, application to analysis of pyrite distribution, 10057
pyrite size distribution and coal-pyrite particle association in steam coals, correlation with pyrite removal by float-sink methods, 4650
- McCartney, John C., Pennsylvania anthracite refuse, survey of solid waste from mining and preparation, 10049
- McCauley, J. Roger :
facts about drug wholesaling, 9094
facts about grocery wholesaling, 1613
facts about major appliance wholesaling, 10590
- McClanahan, William G., photographic dealers and studios, bibliography, 2448
- McClellan, Edwin N., United States Marine Corps in World War, 4615
- McClelland, Joseph J., nomination, hearings, 9452
- McClure, Glenn E., job-associated problems encountered by airmen in Southeast Asia as reported by returnees, 10511
- McClure, Joe P. :
mirror caliper, new optical dendrometer, 11180
predicting tree d.b.h. from stump measurements in Southeast, 7015
sectional aluminum poles improve length measurements in standing trees, 7014
- McCord Truck Lines, motor carrier accident report, 11396
- McCormick, M. P.
tables of mie scattering functions for particles with refractive index 1.5, 7282
- McCracken, David S., selling in Venezuela, 10645
- McCracken, Paul W., nomination, hearing, 4074
- McCracken County, Ky. :
flood plain information, 9682
floods, how to avoid damage, 9705
- McCrackin, Frank L., fortran program for analysis of ellipsometer measurements, 7327
- McCullough, R. Alex, nomination, hearing, 9450
- McCutchan, J. W., scale control in saline water evaporators, review of current status, 9957
- McDevitt, John B., upwash patterns on ablating and nonablating cones at hypersonic speeds, 13121
- MacDonald, Gordon A., petrology of basalt cores from Midway Atoll, 15807
- McDonald, James E., effect of confining reinforcement on ductility of reinforced concrete beams, 8185
- McDonald, Keith L., tables of integrals for spherical harmonic expansion of hydro-magnetic equations, 5577
- McDonald, Malcolm E., annotated bibliography of helminths of waterfowl (Anatidae), 14887
- McDougal, Robert B., mineral industry of Oklahoma, 4624
- McElroy, James L., St. Louis dispersion study, 7425
- McElroy, Robert C., hired farm working force of 1968, statistical report, 10967
- McElroy, William D., nomination, hearing, 12315
- Mace, Arnett C., Jr., effects of soil freezing on water yields, 5673
- McElveen, Jackson V., characteristics of human resources in rural southeast Coastal Plain, with emphasis on poor, 8151
- McFarren, Earl F., water fluoride no. 3, 10295
- McGann, Howard, Monte Carlo simulation for origin-destination surveys, 11647
- McGee, J. P., turbine blade wear by coal ash in working fluid at 1,200° F., 10056
- McGehee, John R., analytical investigation of inflatable landing system having omnidirectional and multiple-impact capabilities, 10145
- McGhee, Robert J. :
aerodynamic investigation of sharp cone-cylinder spikes on 120° blunted cones at Mach numbers, 11453
exploratory investigation of flow field resulting from forward facing nozzles exhausting near large cylindrical body at free-stream Mach numbers of 3.0 to 6.0, 7252
- McGreevy, Laurence J., ground-water resources of Wind River Indian Reservation, Wyo., 3382
- McGuinness, C. L. :
ground-water levels in U.S., 1962-66, North-Central States, 14377
scientific or rule-of-thumb techniques of ground water management, which will prevail?, 4356
- McGuire, Marie C. :
addresses—
Oct. 21, 1968, 769
Oct. 31, 1968, 782
June 2, 1969, 14385
Sept. 16, 1969, 15826
- McGuire, R. C., paper, June 17, 1969, 13647
- Machine guns, characterization of pressure perturbations induced in rocket combustor by machine gun, 8652
- Machine operators, Federal office assistant examination, what it is, and how it is given, 5260
- Machine record codes, coding, Atlanta case study in household sample surveys, Spanish edition, 1624
- Machine shops, railroad shopcraft factfinding study, 881
- Machine tool operators, employment outlook, 4519
- Machine tools :
fifteen years of numerically controlled machine tools, 16638
looking ahead with machine tool industry (address), 15165
miscellaneous machine tools, industrial plant equipment handbook, 6829

- Machine tools—Continued
portable, industrial plant equipment hand-
book, 8113
tool driving or impacting, classification
definitions, 2369
- Machine translations, *see* Translating
machines.
- Machinery:
chemical, USSR industrial development,
translations, 3555
industrial, repairmen, employment out-
look, 4520
machinery and electrical equipment manu-
facturing, industry trend, 7731
machinery belts and clothing, trade and
tariff information, summaries, 10432
machining centers, way type machines,
electrical and ultrasonic erosion ma-
chines, industrial plant equipment hand-
book, 5482
measuring machine and equipment noise,
USSR, 2069
mechanical equipment, Eklutna project,
Alaska Power Administration, field re-
view, 13399
medical diagnostic X-ray machines, de-
velopment and evaluation of automatic
collimator, 6191
rubber and plastics working machinery,
industrial plant equipment handbook,
6828
safeguarding, 17152
sale of machinery or equipment, used in
renegotiable business, revocation, 2440
Soviet heavy-machine building develop-
ments, 4438
special industry—
Federal Item Identification guides for
supply cataloging, supplements, 2849
trade and tariff information, summaries,
7541
see also names or types of machinery.
- Machines, *see* Machinery.
- Machining:
occupations, employment outlook, 4519
wood machining abstracts, 699
- Machinists:
automatic screw-machines, national policy
of apprenticeship, 16577
employment outlook, 4519
see also Aviation machinists.
- McIroy, Paul, mineral industry of North
Dakota, 2159
- McIntire-Stennis act, *see* Forests and
forestry.
- McInturf, Raymond M., compatibility of
radiosonde data at stratospheric levels
over northern hemisphere, 16971
- MacIntyre, A. Everett, nomination, hearings,
1737
- McIntyre, George T., mineral industry of
Kansas, 954
- McIver, Robert G., treatment of decompres-
sion sickness in simulated space flight,
85
- Mack, Robert J., numerical method for
evaluation and utilization of supersonic
nacelle-wing interference, 7259
- McKean County, Pa., gasflood performance
prediction for the Cooper sand of Fork
Run Pool, etc., 11387
- McKee, Edwin H., geology of Magruder
Mountain area, Nevada-California, 4347
- McKee, Thomas B.:
technique to infer atmospheric tempera-
ture from horizon radiance profiles, 6015
technique to infer atmospheric water-
vapor mixing ratio from measured hori-
zon radiance profiles, 11467
- McKee, W. M., safety review, 3406
- McKelvey, V. E., subsea mineral resources
and problems related to their development,
12760
- McKendry, James M., implications of BESRL
research for displays in tactical informa-
tion processing, 13668
- McKenzie, Richard E., autonomic response
to auditory stimulation during sleep,
15019
- Mackereel, Pacific, scomber japonicus hout-
tuyn, synopsis of biological data, 7812
- MacKevett, E. M., jr., distribution of gold,
copper and some other metals in McCarthy
B-4 and B-5 quadrangles, Alaska, 742
- McKinley County, N. Mex.:
Fort Wingate Army Depot—
drilling and testing of well 340, 12767
site study for water well, 12788
- McKnight, M. E.:
estimating defoliation of Douglas-fir and
white fir by western budworm, 14287
literature review of spruce, western, and
2-year-cycle budworms, 5679
24-inch branch as sample unit for egg
mass surveys of western budworm, 5674
- McLain, Douglas R., oceanographic surveys
of Traktors Cove, Revillagigedo Island,
Alaska, 3927
- McLain, L. J., flow-field investigations on X-
15 airplane and model up to hypersonic
speeds, 1061
- McLaren, Richard W., nomination, hearing,
5455
- McLaughlin, Milton D., supersonic transport
operating practices during simulated
operations in future air traffic control sys-
tem environment, 4743
- MacLaury, Bruce K., remarks, Oct. 4, 1969,
17424
- McLean, John D., second-order errors in
linearized velocity corrections and their
effects on rate of convergence of itera-
tive solutions, 6003
- McLellan, Robert:
addresses—
Aug. 19, 1969, 12066
Sept. 27, 1969, 15177
Oct. 23, 1969, 16702
- McLucas, John L., nomination, hearing, 5427
- McMabill, Richard B., advisory opinion
digests, 15738
- McNamara, Robert S., appointment as citi-
zen regent, report, 8032
- McNamara-O'Hara service contract act of
1965, *see* Government contracts.
- McNaney, Joseph J., Nimbus II flight evalua-
tion and engineering report launch through
orbit 5275, 4702
- McNary Dam, fish passage report, 14148
- MacNeal, Richard H., Hellogyro solar sailer,
summary report, 11409
- McNell, William J., transplanting adult pink
salmon to Sashin Creek, Baranof Island,
Alaska, and survival of their progeny,
13822
- McNeill, Walter E., calculated and flight-
measured handling-qualities factors of 3
subsonic jet transports, 1068
- McNitt, Harold A.:
establishing a business in Finland, 16708
market factors in Denmark, 3899
market factors in Finland, 7800
- Macomber, William B., Jr., nomination, hear-
ing, 15454
- MacPherson, Alan C., microwave photo-
diodes, sensitivity as function of geometry
and bias, 14754
- McPherson County, Nebr., soil survey re-
port, 14876
- McQuade, Lawrence C., address, Dec. 12,
1968, 1653
- McQuate, P. L., propagation data over ir-
regular terrain, Fritz Peak receiver site,
9722
- McQuigg, J. D., climates of States, Missouri,
14162
- McRobbie, Henry W., reverse osmosis per-
meators, design study, 9965
- Macrofanna, *see* Fauna.
- McSurely, Alan, proceedings against for con-
tempt of Senate, report, 8035

- McSurely, Margaret, proceedings against for contempt of Senate, report, 8035
- McVehil, G. E., ground wind characteristics at Kennedy Space Center, 16134
- Mad River and Valley:
flood control, engineers report—
departmental edition, 598
document edition, 360
- Madagascar:
background notes, 2483
economic trends and their implications for United States, 12846
Malagasy Republic, capsule facts for Armed Forces, 5098
tracking station, agreement, 2490
- Madden, Richard, hypervelocity impact analysis by method of characteristics, 4754
- Baddock, Thomas, Jr., behavior of straight open channels with movable beds, 11247
- Maddocks, Rosalie F.:
recent Ostracodes of family Pontocyprididae, chiefly from Indian Ocean, 16404
revision of recent Bairdiidae (Ostracoda), 13182
- Madera, Calif., oil spillage and flood damage, hearings, 7970
- Madera County, Calif., channel capacity of reaches of Ash and Berenda Sloughs of Chowchilla River, 1963
- Madey, J. M., design techniques for small scientific satellite structures, 13068
- Madison, Wis., accounts and deposits in all commercial banks in district, summary, 9764
- Madison County, Ark., community profile, 15579
- Madison Memorial Building, *see* James Madison Memorial Building.
- Madson, Raymond A., microbiologic evaluation of frozen foil pack meal components, 16575
- Magazines, *see* Periodicals.
- Magdaleno, Raymond E., small perturbation dynamics of neuromuscular system in tracking tasks, 2192
- Magee, William P., relief, 13873
- Magistrates, *see* United States magistrates.
- Maglieri, Domenic J., variability in sonic boom signatures measured along 8000-foot linear array, 4747
- Magma, late Cenozoic, intrusion and eruption as source of batholiths and volcanoes in Glacier Peak area, North Cascades, Wash., 14347
- Magnesia, *see* Magnesium oxide.
- Magnesium:
compounds, minerals yearbook chapter, 14535
identification marking, Federal standard, 9829
magnetite deposits in northern Okanogan County, Wash., geology, preliminary report, 735
mill products, current industrial reports, 9137
minerals yearbook chapter, 14534
primary, quarterly report, 3333
products, preparation for shipment and shotage, military standard, 10953, 16928
see also Anodes.
- Magnesium oxide, hafnia stabilized with, effects of cyclic heating and thermal shock, 14607
- Magnesium sulfates, contained in properties of sea water and solutions, 2009
- Magnetic bottles, *see* Stellarators.
- Magnetic cooling, *see* Cooling.
- Magnetic fields:
analysis of electron analog simulation of ion containment in, 8653
bodies rotating relative to uniform magnetic field, experimental determination of eddy-current torques, 11442
- Magnetic fields—Continued
convected balanced arc, experimental and theoretical analysis, 4681
earth's magnetic field on South Pole-Queen Maud Land Traverse 1, 6526
electron bombardment thruster operated with cusped magnetic field, 16188
flow of mercury in porous media in transverse magnetic field, experiments, 10060
influence of interelectrode distance on stability of straight pinch in quadrupole high-frequency field, 6466
linear wave transformation in inhomogeneous magnetoactive plasma, 16613
mechanisms of plasma jet cutoff by transverse magnetic fields, investigation, 5142
nonuniformity causes and its effect on stability of theta-pinch plasma, 10154
plasma accelerator with magnetic field arranged to produce divergent-nozzle effect, 7289
properties related to design of a 1-component magnetic support-and-balance system, 10087
steady-state condition, determination of plasma parameters produced by super high-frequency power, 15064
transistors performance in intense magnetic fields, 16177
two-fluid field flows with imposed uniform magnetic field, stability, 13138
- Magnetic materials:
capable of operating in 800° to 1600° F temperature range, 2193, 11402
for static inverters and converters, evaluation, 4664
motion of particles in helical fields having equipotentials coinciding with magnetic surfaces, 5140
1-component magnetic support-and-balance system, magnetic field properties related, 10087
transportation, Federal aviation regulations, 4241, 14186
- Magnetic measurements, quantum magnetometry, selections, USSR study, 15961
- Magnetic memory, MPM-7 thin film matrix, USSR study, 847
- Magnetic resonance, mathematical techniques for EPR [electron paramagnetic resonance] analysis of S-5/2 ions in C₂ symmetry, application to FE³⁺ in quartz, 11523
- Magnetic separators, magnetic separation of minerals of low susceptibility and small particles size, 14555
- Magnetic tape:
processing of digital data logger STD tapes at Scripps Institution of Oceanography and Bureau of Commercial Fisheries, La Jolla, Calif., 13823
recorded, for information interchange hardware standard interchange codes and media, 6041
summary tapes from 1970 census of population and housing, second count, 13771
third count, 13772
video tape recording of ultrasonic test information of ship construction, 2445
- Magnetism:
carbon-13 nuclear magnetic resonance spectra of monosubstituted pyridines, 11376
ferromagnetic liquid, study, 14579
hot plasma production during injection of clusters of fast atoms into magnetic traps, 5143
magnetic ordering in copper-rich Cu-Ni-Fe alloys, Mössbauer, effect study, errata, 1180
magnetic properties of spinel lithium ferrite, effects of lithium and oxygen losses, 7307
magnetohydrodynamic flow around blunt bodies, experimental investigation, 14574

Magnetism—Continued

- magnetothermal oscillations in pressure annealed, pyrolytic graphite, 17236
- marine magnetic and bathymetric profiles, Gulf of California, 13257
- motion of transit particles in system with a minimum B, 5138
- one component, magnetic, support and balance system for wind tunnel models, 10088
- plasma-electron confinement region for electro-cyclotron resonance in magnetic trap with plugs, 5139
- see also* Terrestrial magnetism—*also* headings beginning Magnetism.
- Magnetogasdynamics, *see* Magneto-hydrodynamics.
- Magneto-hydrodynamic generators:
 - Brayton- and Rankine-cycle magneto-hydrodynamic space-power generation systems, effects of electrothermal instabilities, 16195
 - ionospheric MHD generators, USSR study, 858
 - Lewis facility, design and preliminary operation, 1090
 - USSR studies, 8526
- Magnetohydrodynamics:
 - Brayton- and Rankine-cycle magneto-hydrodynamic space-power generation systems, effect of electrothermal instabilities, 16195
 - comparison of Brayton and Rankine cycle magnetogasdynamics space-power generation systems, 6022
 - MHD for central station power generation, plan for action, 16397
 - new momentum-integral method for treating magneto-hydrodynamic and simple hydrodynamic entrance flows, 10133
 - Soviet scientific developments, 2081
- Magnetometers:
 - Hall-effect, in scientific rocket payloads, 6919
 - three-component marine, USSR study, 15944
- Magnetosphere:
 - magnetospheric duct propagation research using Alouette-2 topside-sounder observations, 14612
 - subsolar, determining dimensions of, according to data from terrestrial observations of geomagnetic micropulsations, USSR study, 2096
- Magnets:
 - anisotropic Heisenberg ferromagnet, random phase approximation, 13091
 - classification definitions, 6157
 - permanent magnet stepping motors, dynamic analysis, 7271
 - pumped helium tests of 51-centimeter bore niobium-tin magnet, 10112
 - see also* Electromagnets.
- Magnitude of temperature variability at one location in Tongue of the Ocean, 13212
- Magnolia, La., Tickfaw River at Starns Bridge, memorandum on streamflow rate data at State Highway 441 and 442, 8361
- Magnusen, Roger, education in province of Quebec, 12428
- Magruder Mountain, geology of area, 4347
- Mah, Alla D., heats of formation of chromium carbides, 4639
- Mahan, John N.:
 - fertilizer supply, 6365
 - pesticide review, 1501
- Mahnomen County, Minn.:
 - community action program, effectiveness and administration, GAO report, 12737
 - work experience and training project, administration and effectiveness, GAO report, 1201
- Maida, Peter R., the poor, selected bibliography, 8975
- Mail carriers:
 - deaf clerk-carriers in post office experiment, 5565

Mail carriers—Continued

- prepare yourself for postal examination, 6524
- rural, instructions to applicants for examinations, 3878
- Mail distributors, prepare yourself for postal examination, 6524
- Mail handlers, prepare yourself for postal examination, 6524
- Mail matter:
 - automated vehicle registration files, application to postal O-D survey, 10343
 - carrying and handling—
 - cost ascertainment report, 10277
 - cost ascertainment system, report, hearings, 10798
 - city delivery service, qualification be expressed in terms of revenue units rather than cash receipts, hearings, 1708
 - fraud, obscenity, extortion, enforcement report, monthly, 2798
 - mail fraud laws protecting consumers, investors, businessmen, medical patients, students, 14771
 - mailing articles at 4th class or library rates, delay or waiver of conditions, report, 383
 - military assistance program address directory, MILSTRIP, 553-554, 1793, 4140-41, 5511-14, 8141-42, 9528-29, 12372-373, 14113-114, 15531, 16933-934
 - obscene material sold or offered for sale to minors, exclude from U.S. mails as non-mailable, hearings, 13936
 - pandering advertisements, how you can curb, 16328
 - sex-oriented mail—
 - offensive intrusion into homes, protection, 9364
 - protection of children, legislative proposals, 7861
 - sizes, standardize, hearings, 411
 - survey to collect truck commodity data, size, types, use, etc., 10342
 - transportation by motor carrier and freight forwarders, revision of laws, 3996
 - VIM system dedication (address), 2388
 - see also* International postal service.
- Mailier, James R., Army-labor program for second careerists, 1818
- Maillox, R. J., first-order solutions for mutual coupling between waveguides which propagate 2 orthogonal modes, 8640
- Mails, *see* International postal service—Postal service.
- Main, William A., computer calculation of fire danger, 17024
- Maine:
 - Agricultural Stabilization and Conservation Service—
 - 1967 program year report, 13567
 - 1968 program year report, 13568
 - census of business, 1967—
 - retail trade, area statistics, 6493, 7736
 - selected services, area statistics, 15092
 - wholesale trade, area statistics, 11991
 - conifers, specific gravity, survey, 686
 - electric rate book, 11069
 - Federal outlays report of Federal Government's impact by State and county, 9551, 9602
 - landings, fish and shellfish, 3095
 - annual summary, 13814
 - mineral industry, minerals yearbook chapter, 955, 17185
 - potato acreage, yield, size and grade survey, 13494
 - preliminary reconnaissance for uranium, 7701
 - western, Quilby and Greenvale Cove formations, 7044
- Maine, Gulf of, oceanographic cruise summary, 13223
- Mainland, Donald, notes on biometry in medical research, 14488, 11765

Maintenance :

- aerospace maintenance safety, 2557
- Air Force Department operation and maintenance contracts, potential savings by improving evaluation of competitive proposals, GAO report, 8335
- aircraft maintenance, preventive maintenance, etc., Federal aviation regulations, 5589, 12584
- airway facilities sector level, maintenance staffing criteria and standards, handbook, 16982
- building maintenance man, suggested guide for training course, 15634
- comanders' supply and maintenance handbook, 1581
- commercial vehicles, cost reductions by improving management, of, GAO report, 704
- current meters, vertical-axis type, 753
- digest of supply and maintenance policies, 11945
- facilities, design manual, change, 1237
- irrigation operation and maintenance bulletin, 3012
- L/MF range equipment, 4248A, 12594
- logistics maintenance management, field manual, 11936
- maintenance and service workers examination announcement, amendment, 5249
- man in maintenance reliability system, FAA symposium, 5585
- mechanical equipment, Eklutna project, Alaska Power Administration, field review, 13399
- multicommand ADP systems, development and maintenance, Army pamphlet, 15046
- power features, Eklutna Project, Alaska, field review, 13400
- systems maintenance service organization, FAA handbook, 5593
- vehicle maintenance at non-personnel offices, facilities handbook, 1306, 2394, 13318, 16327
- Maintenance operators, transmitter and receiver operator, examination announcement, amendment, 7764
- Maintenance shops, equipment, Federal item identification guides for supply cataloging supplements, 2844
- Maintenance technicians, transmitter and receiver operator, examination announcement, 10631
- Maisel, Sherman J. :
addresses, lectures, etc.—
Nov. 17, 1968, 651
Feb. 24, 1969, 5640
Mar. 11, 1969, 8239
Mar. 28, 1969, 8241
May 12, 1969, 8252
Oct. 15, 1969, 17001
Oct. 29, 1969, 17000
- Matzuru, Japan, marine biofouling studies, oceanographic cruise, summary, 2327
- Major County, Okla., soil survey report, 7467
- Make your practice perfect, 6414
- Making federalism work, study of program coordination at community level, 10961
- Making it, 14773
- Making the scene in jobs, school, training, through Neighborhood Youth Corps, 4464
- Malacca Strait, sailing directions, change, 1242
- Malacosoma, see Moths.
- Malagasy Republic, see Madagascar.
- Malaria, imported, analysis of, USSR study, 12896
- Malathlon :
evaluation, as protectant against insects in sorghum grain, in small bins, 10486
tolerance of spruce budworm to, 4321
- Malawi :
capsule facts for Armed Forces, 117
economic trends and their implications for United States, 8474

Malaysia :

- economic trends and their implications for United States, 5782, 9987, 17119
- labor organizations, directory, 7186
- Malde, Harold E., catastrophic late Pleistocene Bonneville flood in Snake River Plain, Idaho, 750
- Maldives Islands :
background notes, 6265
capsule facts for Armed Forces, 15031
- Maleske, Marcia J., foreign trade regulations of Peru, 1661
- Maletic, John T., sprinkler irrigation, soils, climate, and land classification, 14841
- Malheur National Forest :
Douglas-fir tussock moth control, 1965 surveillance, Burns project, 14295
general information, 12684
thinning program, 14296
- Malheur National Wildlife Refuge, mammals, list, 13457
- Mali :
capsule facts for Armed Forces, 5094
economic trends and their implications for United States, 14418
- Mallards, habitat management, 16429
- Malliaras, Constantina, relief, 16759
- Malliaras, Georgia, relief, 16759
- Malliaras, Panagiotis, relief, 16759
- Mallory, E. C., Jr., water load of uranium, radium, and gross beta activity at selected gaging stations, 14371
- Malnutrition :
and hunger, hearings, 9444
and hunger in America, chronology and selected background materials, 495
and hunger in United States hearings, 5373
food gap, relationship with poverty in United States, 15477
food programs, message from the President, 7862
poverty caused malnutrition, remedies, etc. (address), 10474
poverty, malnutrition, and Federal food assistance programs, statistical summary, 16896
study, authorization, report, 1727, 5420
- Malone, Kevin, mineral industry of Alaska, 2132
- Malta :
background notes, 7476
maritime matters, deployment of—
U.S.S. Everglades, agreement, 971
U.S.S. Yosemite and U.S.S. Grand Canyon, agreement, 17410
- Malte, Philip C., experimental evaluation of subsonic expansion tube, 11411
- Mammals :
Des Lacs National Wildlife Refuge, list, 16450
for museum study, directions for preserving, 13413
fossil marine, from Miocene Calvert formation of Maryland and Virginia, title pages, etc., 8705
Gebel 'Uweinat, Libyan Desert, habitats, flora, mammals, and wasps, 13423
Malheur National Wildlife Refuge, list, 13457
mammalian adaptations to diving, 8579
marine, books and articles, list, 5299
marine, of the world, list, 5306
Maryland, description, distribution, etc., 13451
National Bison Range, list, 13458
of public health significance, pictorial keys, 14799
Red Rock Lakes National Wildlife Refuge, list, 1419
Squaw Creek National Wildlife Refuge, list, 1420
Mammoth Cave National Park, general information, 10207

- Mammoth-High Sierra Recreation Area, general information, 8281
- Man:
- an endangered species?, 5756
 - and nature in the city, symposium, 10395
 - capability for self-locomotion on the moon—
 - detailed report, 16128
 - summary report, 16129
 - coordination of voluntary movements of man in a zero gravitational field (under weightlessness), 13147
 - human development, research progress, highlights, 16257
 - human efficiency under water, USSR study, 12949
 - human survival in aircraft emergencies, 4678
 - intestinal parasites, morphology of diagnostic stages, 16355
 - linking man and spacecraft, information transfer, 11422
 - man in space, 10094
 - perspectives on human deprivation, biological, psychological, and sociological influences, 14693
 - tolerance to direct effects of air blast, estimate, 17123
 - vocational education, bridge between man and his work, 1817
- Man-hours, *see* Labor.
- Man-in-space, *see* Outer space.
- Man-machine systems, *see* Human engineering.
- Man-made fiber broadwoven goods, *see* Textiles.
- Management, *see* Administrative management—Configuration management—Forest management—Industrial management—Office management—Planning—Wildlife management.
- Management auditors, *see* Auditors.
- Management Interns, Economic Development Administration, 1796
- Management science in procurement cycle, 1772
- Management Services Office, Agriculture Dept.—
 - appropriations, 1970—
 - hearings, 7945
 - reports, 9311, 12254
 - developing managers, Post Office Department, 2392
 - ideas, actions for increasing efficiency and economy in management of defense activities, digest, 16921
 - line, personnel management programs, 7784
 - retirement plans for self-employed owners, etc., 13412
 - senior level positions examination announcement, 5252
 - traffic, industrial, employment outlook, 4541
- Managing the environment, 3999
- Managing the modern public sector, 17425
- Manasquan, N.J. to Cape Hatteras, coastal warning facilities chart, 14966
- Manchester, Alden C., sanitary regulation, once? twice? three? 9646
- Manchester, N.H., area wage survey, 2116
- Maneuverability, aquatic animals, USSR study, 12911
- Maneuvering board manual, 8754
- Maneuvers, *see* Flight.
- Manganese:
 - mineral industry surveys, monthly, 3096
 - thorium-chromium and thorium-manganese alloys electro-deposited, preparation of thorium metal by vacuum distillation, 10066
- Mangelsdorff, A. David, relationship of galvanic skin response to emotion-evoking properties of words, 11373
- Maniar, Naresh M., bending moment distribution in MARINER cargo ship model in regular and irregular waves of extreme steepness, 2446
- Manifolding, *see* Duplicating processes.
- Manihine (M.F.V.R.):
 - plants collected on western Indian Ocean islands during cruise, 17371
- Manikin measurements of noise attenuation provided by flight helmets, 14503
- Manipulation errors in finite element analysis of structures, 14573
- Manipulators, information robots and manipulators, USSR study, 15935
- Manjikian, Serop, development of reverse osmosis desalination membranes, 804
- reverse osmosis pilot plant for desalination of sea water, 11286
- Manmade fiber broadwoven goods average weight and width of fabrics, current industrial reports, 3850
- Mann, Charles N., mechanics of running sky-lines, 8309
- Mann, John, cactus-feeding insects and mites, 6070
- Manners and customs:
 - farm wage force, 1965, socio-economic profile, 8153
 - water oriented outdoor recreation socio-economic factors affecting participation, 8156
- Manning, Raymond B., notes on some stomatopod crustacea from southern Africa, 11662
- Mannion, J. J., soil sealing chemicals and techniques, 805
- Mannitol, citrate mannitol agar medium for separating *Escherichia coli* paracolons from *Shigella*, 83
- Manpower:
 - Air Force, manpower determinants, 7620
 - American student activism in comparative perspective seminar, 5888
 - America's manpower begins with boy-power, Boy Scouts of America, 9254
 - automation research monographs, 878, 2103, 7164, 11331
 - baccalaureate sources of science and engineering manpower, 4815
 - biomedical research, for the eighties, 6066
 - Canada, policy and programs, 879
 - CINTERFOR, Inter-American seminar on manpower training and development, 12959
 - civilian manpower management (periodical), 3023
 - college graduate and national security utilization of manpower by Armed Services, bibliography, 1766
 - cooperative area planning system, concentrating manpower services against poverty, 7163
 - crisis of qualified manpower for criminal justice, analytic assessment with guidelines for new policy, 4928, 13432
 - development and training act of 1962—
 - amend—
 - law, 7827
 - report, 6655
 - earnings, influence of MDTA training, 2104
 - employer's guide to on-the-job training, 8532
 - experimental and demonstration program, exploring new approaches to manpower problems, 5881
 - good training, good jobs, MDTA—
 - nurse aid to licensed practical nurse, 1809
 - occupational therapy assistant program, 579
 - upgrading practical nurses, 580
 - guidelines for submission of applications for manpower research institutional grants, 14436

Manpower—Continued

development and training act—con.
handbook chapter, training project development, 16967
improvements needed in contracting for on-the-job training under, GAO report, 710
preparing people for good jobs, 4465
training activities, annual report, 5385
training programs, 5015
impact on public assistance caseloads, 2967
economics of manpower policy (remarks), 10009
education, employment, and Negro equality, seminar, 883
equality of opportunity in programs, report of activity under title 6 of Civil Rights act of 1964, 877
Federal civilian manpower statistics, monthly release, 3139
first assessment, 8166
forest industry manpower training needs in Tennessee Valley region, 17418
health manpower source book, 16256
health, 1965-67, United States, 1355
health resources statistics, 2417
improved management in Federal Government, report, 6644, 10741
industry, surveys, 6904, 17419
information, counselor's guide, annotated bibliography, 895
international migration of talent and skills, hearings, 487
job restructuring, handbook, 16504
jobs '70, introducing programs, 17139
manpower (periodical), 5882
manpower and operations research studies of U.S. Employment Service and State employment services 1958-67, bibliography, 593
manpower and private resources, symposium, 8542
manpower/automation research notice, 3097
manpower evaluation report (series), 2104
manpower research institutional grant program, first three years, 14439
manpower technical exchange (periodical), 14440
MDTA experimental and demonstration findings, 14441
national emergency standby regulations and instructions, Federal personnel, 2864
nonprofessional, occupational licensing and supply of, 15999
nursing homes and related health care facilities, industry manpower survey, 17419
pharmacy, United States, 13381
policy and program, seminar—
economic issues for the future, 882
psychological dynamics of inner-city problems, 884
rural manpower policy, 2105
policy, work force adjustments in private industry, their implications, 878
programs—
assessing the economic scene, 15994
effective management information system, development, ESARS handbook, 14435
for senior citizens, 7165
projections for North Central region, bibliography, 899
publications, list, 10010
report of the President—
departmental edition, 4466
document edition, 3975
research—
bulletin, 879
inventory, 581, 16959
monograph, 15999
projects, 880

Manpower—Continued

resources for Contract Administration Services, DoD Contract Management Conference, 1774
scientific activities of nonprofit institutions, 16281
services, reference guide to job recruitment, training, and placement aids of Manpower Administration, 5883
simplified approach to manpower management model, 10507-508
skilled and professional, international migration, hearings, 487
social and economic policy, 15998
statistics—
bibliography, 8558
supplement to Manpower report of President, 8540
surveys and reports for developing countries, 1958-68, summaries, 14459
tomorrow's manpower needs, national projections—
developing area manpower projections, 7173
industry employment and occupational structure, national trends and outlook, 10015
national industry, occupational matrix and other manpower data, 7174
occupational employment, national trends and outlook, 10016
training—
forest industry, in Tennessee Valley region, 7545
message from the President, 13862
utilization, affirmative program, equal opportunity in Reclamation Bureau, 14832
utilization studies, guidelines, 10445
Manpower Administration :
contract, audit guide, 15995
manpower publications, list, 10019
Manpower analysts, examination announcement, amendment, 13786
Mansell, R. L., effects of prolonged reduced pressure on growth and nitrogen content of turnip, 3705
Mansfield, Mike :
Mexico-United States Interparliamentary Group, report, 15453
postscript to reports on Czechoslovakia, NATO, and Paris negotiations of Sept. 1968, 8066
Vietnam and Paris negotiations, reports, 469-470
Mansker Creek :
flood plain information, 4202
floods in Pocahtontas, Ark., how to avoid damage, 4209
Manuals, see names of departments, etc., issuing manuals—also subjects.
Manuey, Albert, yours to preserve, 13200
Manufacturers, see Manufacturers and manufacturers.
Manufactures and manufacturers :
annual survey of manufactures, 1615, 3828-29
States, standard metropolitan statistical areas and large industrial counties, statistics—
Mountain division, 3829
South Atlantic division, 1615
West North Central division, 3828
census 1963, indexes of production, change sheet, 220
census, 1967—
EC series, 13754-755
geographic area coding manual, cross reference section, 221
materials consumption items, list, 5227
preliminary reports, announcement and order form, 9099
exports sales and orders of durable goods, current industrial reports, 2732
Federal supply code for manufacturers—
excluding United States and Canada, supplements, 2882

Manufactures and manufacturers—Con.

- Federal supply code for manufacturers—con.
- United States and Canada code to name, 4122
- United States and Canada—supplements
 - code to name, 2883
 - name to code, 2884
- financial report of corporations, quarterly report, 3354
- incentive pay in manufacturing industries, report, 12977
- leather, stone, clay, glass & miscellaneous, 7732
- manufacturers' shipments, inventories, and orders, 248
 - current industrial reports, 2732
- manufacturing capacity, comparison to two sources of information, 1890
- manufacturing employment, changes in structure, 1630
- manufacturing production workers earnings series, 1939-68, summary, 11335
- metals consumed in manufacturing, 5198
- salesmen and saleswomen, employment outlook, 4546
- shipments of commodities by manufacturers, map, 7754
- small business technical aids, 7453, 10360, 11661
- small manufacturers, management aids, 14855
- wage and benefit developments in manufacturing, 2123
- wage developments—
 - report, 17157
 - summary, 3579
- wood used in manufacturing industries, 16558
- see also* names of manufactured articles.
- Manuscript Copying, Center for Coordination of, *see* Center for Coordination of Foreign Manuscript Copying.
- Manuscripts:
 - collections, national union catalog, Library of Congress, 2127
 - historic, concerning horticulture and forestry in collection of National Agricultural Library, 1157
 - manuscript register series, 16043
- Manvel, Allen D., housing conditions in urban poverty areas, 1315
- Manzanillo, Mexico, despatches from U.S. consuls, pamphlet accompanying microcopy, 6031
- Manzanita, nonsprouting greenleaf, brushfields in Cascade Range, reclamation, 8307
- Maolism, threat to socialism in China, 8515
- MAP (military assistance program), *see* Military aid.
- Map reading, *see* Maps and charts.
- Mapes, B. E., sediment transport by streams in Walla Walla River basin, Washington and Oregon, July 1962-June 1965, 15817
- Maple:
 - hard maple, effect of tension wood used for manufactured parts, 15763
 - products, 7th conference, proceedings, 7578
 - sap, use of plastic tubing in production, research summary and evaluation, 7020
 - shrinkage and footage loss from drying 4/4-inch hard maple lumber, 4324
 - sugar maple—
 - basal stem, canker, 17021
 - form recovery by understory, under uneven-aged management, 15756
 - sap yield on flat land doubled by vacuum pumping, 15758
 - tree yields by saw long grade, estimate by use of d.b.h., diameter at breast height, and butt long grade, 4313
- Mapping, *see* Maps and charts.
- Maps and charts:
 - aerial photography status maps, 12671

Maps and charts—Continued

- aeromagnetic interpretation, Blue Range primitive area, 14328
- Air Force, aeronautical charts, latest editions, 3031
- airborne measurements of terrestrial radioactivity as aid to geologic mapping, 1965
- atlas of TIROS VII monthly maps of emitted radiation in 8-12 micron atmospheric window over Indian Ocean area, 10106
- bathymetric atlas of northwestern Pacific Ocean, 14736
- bottom sediment data program users guide, 13238
- cartography and geodesy, selections, USSR study, 12931
- catalog of copyright entries, 517, 4117, 14067
- Census Bureau, United States maps, GE-50 series, 7753-54
- Coast and Geodetic Survey—
 - aeronautical charts—
 - catalogs, 294, 1647, 6527, 10633
 - dates of latest editions, 2748
 - flight information publications, dates of latest editions, 2749
 - instrument approach procedure charts, 2982
 - Alaska, Hawaii, U.S. Pacific Islands, 2983
 - military fields, 3119
- nautical chart catalog
 - Atlantic and Gulf Coasts, Puerto Rico and Virgin Islands, 12060
 - Pacific Coast, Hawaii, Guam and Samoa Islands, 7789
- computer mapping, 13759
- congressional districts, 91st Congress, 7753
- facsimiles of rare historical maps, list of reproductions, 5920
- Federal item identification guides for supply cataloging, supplements, 2849
- geologic maps of the moon, 4360
- Geological Survey, increase revenues through changes in map-pricing practices, 14322
- global charts of mean brightness, monthly and seasonal data, from ESSA 3 and ESSA 5 digitized pictures, 1838
- grid values of total magnetic intensity IGRF-1965, tables, etc., 12566
- H.O./B.C. chart, design and production, 12324
- length and area equivalents for interpreting wildland resource maps, 17035
- lunar wall mosaic—
 - LEC-1, lunar earthside chart, 7631
 - LEM-1B, lunar earthside hemisphere, 5086
- major concentrations of poverty in standard metropolitan statistical areas of 250,000 or more population, 5522
- map reading, field manual, 11933
- maps by type of farm, etc., 1964 census of agriculture, 7752
- multiplex mapping, Army technical manual, change, 5123
- nautical chart symbols and abbreviations, 9194
- nautical charts and publications, catalog—
 - introduction, 10224-226
 - region 0, United States, 10231
 - region 2, Central and South America and Antarctica, 10227
 - region 5, West Africa and the Mediterranean, 10228
 - region 7, Australia and Indonesia, 10229
 - region 8, Oceania, 10230
- New Florence, case study for 1970 censuses of population and housing, mapping, 12018
- price list, 2406
- reports and maps of Geological Survey released only in open files, 9891

Maps and charts—Continued

- surface temperature mapping with infrared photographic pyrometry for turbine cooling investigations, 10121
- topographic symbols, field manual, 10543
- transmission loss atlas for select aeronautical service bands from 0.125 to 15.5 GHz, 12567
- VLF effective ground conductivity map of Canada and Greenland with revisions derived from propagation data, 10269
- Weather Bureau, daily synoptic series, 2739
- world maps of long-wave radiation and albedo, 1837
- see also* Atlases—Charts—also names of localities—also subjects.
- Maraging steel, *see* Steel.
- Marble, settlers, employment outlook, 4484
- MARC (machine-readable cataloging), *see* Cataloging.
- Marcus, D. D., effect of surface potential on scale formation, 4400
- Mardessich, Branka, relief, 13889
- MAREP, marine environmental prediction, Federal planning guide, 8676
- Marfield, Galen H., electrical installation for control of northern squawfish, 7817
- Margason, Richard J.:
 - aerodynamic characteristics of twin-propeller deflected-slipstream STOL airplane model with boundary-layer control on inverted V-tail, 1082
 - path of jet directed at large angles to subsonic free stream, 1132
- Margin (securities) trading, *see* Securities.—Stocks.
- Margolles, Jose R. Portela y, *see* Portela, Jose R.
- Mariocopa County, Ariz.:
 - Agua Fria River drainage area floods, how to avoid damage, 4199
 - flood plain information, 4200
- Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14313
- work experience and training, administration and effectiveness of project, GAO report, 8328
- Marihuana:
 - abuse among young people, hearings, 5457
 - recent research, 17352
 - staging of broadcast, pot party at a university, deceptive programing practices, report, 5363
- Marijuana, *see* Marihuana.
- Marin County, Calif., Bolinas Lagoon, sedimentation and hydrology, preliminary studies, 15801
- Marine accidents:
 - radar-equipped merchant ships, study of collisions, and preventive recommendations, 14720
 - towing vessel safety and accident preventive recommendations, study, 16288
- Marine atlases, *see* Atlases.
- Marine biofouling, *see* Fouling organisms.
- Marine biology, hydrobiological research in south Florida applications of aerial photography and remote sensing, 12755
- see also* Biology.
- Marine Corps:
 - air traffic controllers, air traffic trainee aptitude-test measures, comparative study, 7723
 - Assistant Commandant, grade of general, established—
 - hearings, 3985, 9447
 - law, 9237
 - reports, 5357, 8028
 - awards manual, 7391
 - combat lithograph series, 12992
 - concept of close air support, annotated bibliography, 5924, 16044
 - divisions, combat readiness, subcommittee report, 1730

Marine Corps—Continued

- Fleet Marine Force manual FMFM series, 2128, 7194, 8567, 10038, 14484, 16041, 17162-163
- Fleet Marine Force units, manual, air movement, 2128
- general information, 12993
- historical reference bibliographies, 5924
- historical reference pamphlet, 4615, 16044-45
- history of operations in World War II, victory and occupation, 16042
- in World War, history, 4615
- infantry battalion, Fleet Marine Force manual, 14484
- leadership and serum uric acid levels, 14508
- Liberation of Guam, 12991
- management review (periodical), 3181
- Marine division, Fleet Marine Force manual, 10038
- occupation of Japan, 16045
- occupational opportunities, 16046
- officer candidate, general information, 10039
- Officer Candidate School, Quantico, Va., physical training platoon, evaluation, 14506
- officer candidates, effect of protein dietary supplementation on physical performance, 16058
- officers, retired, register, 2345
- publications, price list, 6170
- search, research and development requirements, 10040
- 76 hours, Tarawa, 913
- Supply Center area, Barstow, Calif., water resources, 9930
- travel regulations, 3019
- uniforms, regulations, 8568
- women marines, physical fitness test standards, 14505
- Marine Corps Museum, manuscript register series, 16043
- Marine Corps Reserve:
 - officers—
 - general, active status, increase number, authorize—
 - hearings, 7949
 - report, 7930
 - retired, register, 2345
 - reserve marine (periodical), 3387
- Marine Corps War Memorial, general information, 4807
- Marine crewman's handbook, change, 6445
- Marine fauna:
 - exploring world around us, infant fish and shellfish, etc., 12431
 - marine gammaridean Amphipoda, families and genera, 8708
 - marine mammals of world, list, 5306
- Marine fouling organisms, *see* Fouling organisms.
- Marine geodesy, *see* Geodesy.
- Marine geology, *see* Submarine geology.
- Marine magnetic and bathymetric profiles in Gulf of California, 13257
- Marine mammals, *see* Mammals.
- Marine research, 11531
- Marine Research, Education, and Facilities Committee, pamphlets, 6054, 11530, 13164-165
- Marine Resources and Engineering Development, National Council on, *see* National Council on Marine Resources and Engineering Development.
- Marine resources conservation:
 - legal-political arrangements for development, national program, Marine Science, Engineering and Resources Commission panel reports, 10285
 - marine resources development, national opportunity, 7081
- Marine science, *see* Oceanography.
- Marine Science, Engineering and Resources Commission, panel reports, 10285

- Marine services, chart, Alaskan waters, 14968
- Marine surface observations, 10455
- Marine toxins from Pacific II, contamination of Wake Island Lagoon, 8851
- Marine water pollution, see Water pollution.
- Marine zoology, see Marine fauna.
- Mariners, see Notice to mariners.
- Mariners weather log (periodical), 3102
- Marines, see Marine Corps.
- Marion County, Ark., community profile, 15580
- Marion County, Oreg. :
flood plain information, 12483
floods, how to avoid damage, 12502
- Maris, Robert L., 350° panoramic camera for underwater use, 13250
- Marital status, see Marriage.
- Maritime Administration :
Administrator, nomination of Andrew E. Gibson, hearings, 9452
annual report, 16047
appropriations, 1970, authorization—
hearings, 7968, 12289
reports, 7939, 9290, 10869
current regulations, index, 10041
press releases, 3303
research and development progress, 7196
research and development technical reports, index, 5926
SP series, 915-916, 2129, 5925, 8569-70, 10042-45, 11365-366, 12994-995, 14487-488, 16048-50, 17164-165
vessels activated for use in, need to improve procurement procedures for outfitting, GAO report, 716
- Maritime Day, poster ceremony (remarks), 7806
- Maritime industry, see Merchant marine—Shipping.
- Maritime Mobile Radio Service, development of VHF propagation curves, 12604
- Maritime Mobile Service, radio regulations, partial revision, Geneva 1959, and final protocol, 6286
- Maritime safety data for shipyards, 8544, 14443-445
- Maritime safety digest (periodical), 3103-4
- Maritime service, see Shipping.
- Maritime Subsidy Board, current regulations, index, 10041
- Maritime traffic, see Ships.
- Mark Twain National Forest, seed and cone insect survey on seed production areas, 7005
- Markakis, P., irradiation of fruits and vegetables, 5149
- Markers, self luminous, aircraft exit, spring pin mounted, military standard, 14112
- Marketing, see Markets and marketing—also names or classes of commodities, etc., marketed.
- Marketing Advisory Committee, National, see National Marketing Advisory Committee.
- Marketing aids for cattle feeder, 1508
- Marketing Conference, National, see National Marketing Conference.
- Markets and marketing :
acreage marketing guides, 503, 4102, 6804-5, 14063
agreements and orders, statutes, compilation, 1502
agricultural market development activities of principal competing countries, 8270
agricultural marketing (periodical), 2562
agricultural marketing act of 1946, amend, hearing, 16807
agricultural marketing agreement act of 1937, amend—
hearings, 388, 7942, 10764
reports, 374, 10728
audio-visual equipment and materials, guide to sources of information and market trends, 9092
bibliography on marketing to low-income consumers, 3826
- Markets and marketing—Continued
broker marketing guide, 9505
buying and selling a small business, 8848
campground marketing, heavy-haul strategy, 17027
country market digest (series), 9999
crops, quotas and allotments, statutes, compilation, 1502
defense utilization and marketing handbook, supplements, 5486, 16912
distribution cost analysis, bibliography, 4924
exhibitor's export market guide (series), 9999
foreign market reports, accessions list, 2905
fresh market and processing usage, effects of gamma radiation and chemical treatment on quality of stored potatoes, 5148
Government market, guide for buying and selling, directory, 4926
international marketing information service, IMIS (series), 9999
international opportunities for newcomers (address), 7118
market factors in—
Australia, 10657
Denmark, 3899
Finland, 7800
Hong Kong, 1659
Italy, 10659
Norway, 3904
Yugoslavia, 9205
market profiles—
Africa, 12068
Far East, 10651
Latin America, and Caribbean, 10652
Near East and South Asia, 10648
Western Europe and Canada, 10649
market share reports—
catalog, 7117
use, country report on Italy, 6542
market surveys and industry reports issued by United Nations Economic Commission for Africa, supplement, 15170
marketing and Government in changing world (address), 10643
marketing and transportation, 3105
marketing bulletins, 10485, 11872, 16545
marketing information guide, annotated bibliography, 3106
marketing new products, information sources, selections from Marketing information guide, 16640
marketing 1975, change and challenge (address), 213
marketing research, major government sources and statistics (address), 13728
marketing research reports, 43-44, 1508-10, 3646-49, 5049-51, 6383-86, 7595-98, 8971-72, 10486-87, 11873-874, 13594, 14997, 16546-548
marketing research workers, employment outlook, 4474
marketing service programs, matching fund, highlights, 506
marketing story, role of marketing in our economy, announcement and order form, 6167
match supply with demand to market vegetables successfully, 4104
production and trade of business machines in principal world markets, 10592
roadside market, building plan, 6391
small marketers aids, 13412
turkey marketing guide, 1750
wood picnic structures, 17041
world is your market (address), 15891
world markets for U.S. exports (series), 9999
see also names or classes of commodities, etc., marketed.

- Marking:**
 corn earworm moths with dyes for release studies, rapid method, 1497
 identification marking of aluminum, magnesium, and titanium, Federal standard, 9829
 obstruction marking and lighting FAA standards, change, 5595
 registration, aircraft and related products, Federal aviation regulations, 5590, 12583
 shipment and storage, military standard, 9522
- Markleeville, Calif., motor carrier accident report, 8586
- Markowitz, Howard, monocular recognition of letters and Landolt Cs in left and right visual hemifields, 10047
- Marks, Miss., railroad accident, report, 11106
- Marks (shoulder), *see* Insignia.
- Marks (sleeve), *see* Insignia.
- Marksmanship, *see* Shooting.
- Marmor, Barbara R., relief, 16838
- Maroon Bells-Snowmass Wilderness, general information, 12686
- Marpole (fishing vessel), documentation for coastwise trade, hearings, 1706
- Marquette County, Mich., Reany Creek formation, description, 4353
- Marquis, David A., silvicultural guide for paper birch in northeast, 17045
- Marratto, Patrick, relief, 6599, 13835, 13970
- Marriage:**
 fertility and childspacing, 12011
 marital status—
 and living arrangements before admission to nursing and personal care homes, 8822
 population characteristics, 12012
 race, etc., on death certificate and matching census record, comparability, 10336
 statistical studies, bibliography, 16352
 vital statistics of U.S., 7434
- Married persons, *see* Husbands and wives.
- Mars (planet):
 atmosphere, density, analysis of gamma ray backscatter technique for direct measurement, 16180
 atmosphere, models, 1044
 book, 4694
 entry capsules—
 evaluation of configuration changes on optimum structural designs, 14585
 synthesis of optimum structural designs for conical and tension shell, 16121
- Mars atmosphere, *see* Atmosphere.
- Marshall Islands, ornithology, 10361
- Marshall White Community Center, Ogden, Utah, dedication (address), 763
- Marshals:**
 appointment by the President, etc., transform into career civil service status, report, 445
 deputy marshals, examination announcement, 16680
 services provided, need to revise fees, GAO report, 15785
 United States, for middle district of Georgia, nomination of William L. Martin, Jr., hearing, 10910
- Marston, Noel S., relief, 6607
- Marteneq, Pierre, experimental investigation of spectral emission characteristics of argon-tungsten and argon-uranium induction heated plasmas, 8593
- Martens, David G., flooring costs, 15771
- Martens, Laurence A., flood inundation and effects of urbanization in metropolitan Charlotte, N.C., 4370
- Martian atmosphere, *see* Atmosphere.
- Martignoni, Mauro E., determination of nucleopolyhedron counts and size frequency distributions by means of Coulter transducer, 4316
- Martin, Benjamin G., eye opacities in flying personnel, 3693
- Martin, Charles E., path to integration, 583
- Martin, E. C., relation of precipitation to flow from Little Leroux Spring on San Francisco Peaks, Ariz., 9849
- Martin, Graham A., nomination, hearing, 15454
- Martin, John B., Jr., nomination, hearing, 9486
- Martin, John M.:
 delinquency today, guide for community action, 17377
 mobile homes and parks, bibliography, 16401
- Martin, Preston:
 addresses, lectures, etc.—
 Mar. 28, 1969, 6944
 Apr. 29, 1969, 8208
 May 19, 1969, 9776
 June 12, 1969, 11060
 Oct. 13, 1969, 15704
 nomination, hearings, 6778
- Martin-Marietta Corporation, wage chronology, 11334
- Martin, William J., storage-dispenser device for food cubes aboard space vehicle, 3694
- Martin, William L., Jr., nomination, hearing, 10910
- Martin, William McC., Jr.:
 addresses, lectures, etc.—
 May 22, 1969, 9825
 June 30, 1969, 12649
 Oct. 17, 1969, 17002
- Martinez-O'Ferrall, Jose A., pharmacodynamics of radioprotective drug, 2-(1-decylamino) ethanethiosulfuric acid, 15020
- Martinique:**
 economic trends and their implications for United States, 8470
 economy, basic data, 10647
 plant quarantine import requirements, 13551
- Martinson, R. Kahler, waterfowl status report, 7474
- Maryland:**
 ASCS programs, summary of operations, 11827
 census of business, 1967 retail trade, area statistics, 11988
 eotother skeleton from Miocene Choptank formation, 8710
 climatological data, 2662
 dealers in trout and pondfishes, list, 10391
 District Court, suitable site for holding court in Prince Georges County, authorization, report, 16850
 eastern, Cretaceous-Tertiary boundary, 5704
 electric note book, 4266
 employment statistics, 1958-66, compilation, 12979
 Federal outlays, report of Federal Government's impact by State and county, 9552, 9603
 fossil marine mammals from Miocene Calvert formation, title pages, etc., 8705
 landings—
 annual summary, 5296
 fish and shellfish, 3107
 loblolly pine recommended for local seed sources, 17049
 mammals, description, distribution, etc., 15451
 mineral industry, minerals yearbook chapter, 956
 natural resources, 9952
 Pennsylvania-New Jersey-Maryland interconnection, power interruption, report, 649
 postal map, 7402
 precipitation data, hourly, 2962
 proposed Potomac National River, plan for preserving, 6093
 real property acquisition for highway purposes, reports, 15245, 15413

INDEX 1969

- Maryland—Continued
uranium reconnaissance, preliminary, 13711
- Maryland tobacco, *see* Tobacco.
- Marzoff, J. M., seawater battery with converter-regulator as power source for AN/SSQ-38 sonobuoy, 2358
- Masers, optical materials, use of nuclear radiation in preparation, investigation, 5162
- Mash, Julia, manpower and operations research studies of U.S. Employment Service and State employment services 1958-67, bibliography, 593
- Masks:
mask, CBR, military standard, 5507
perception of pitch in white noise mask, 7197
visual acuity under water without face mask, 16069
- Mason, H. L., making valuable measurements, proceedings of 1968 standards laboratory conference, 8669
- Mason, Joseph D., some optimal branched trajectories, 10078
- Mason, Richard R., sequential sampling of Douglas-fir tussock moth populations, 12706
- Mason Creek:
flood plain information, 12464
floods, how to avoid damage, 12534
- Masons:
cement masons, employment outlook, 4487
masons and mason tenders, construction industry safe work guide, 17151
stonemasons, employment outlook, 4484
- Masotti, Louis H., shoot-out in Cleveland, black militants and police, staff report to National Commission on Causes and Prevention of Violence, 13226
- Mass, Frederick H., bottom sediment data program users guide, 13238
- Mass wasting in coastal Alaska, 17052
- Mass spectrometry, *see* Spectrometry.
- Mass (physics):
heat-shield mass, effect of chemical state of pyrolysis gases on, 2265
longitudinal mass-spring modelling of launch vehicles, 14620
mass measuring system, analysis of operation in an orbiting spacecraft, 6005
- Mass transfer:
in laminar and turbulent hyperfiltration systems, 7085
stagnation point heat and mass transfer at hypersonic speeds, linearized theory, 13078
- Massachusetts:
Agricultural Stabilization and Conservation Service, annual report and statistical summary, 13553
basic data report, ground water series, 8350
census of business, retail trade, area statistics, 11989
climate, 14161
electric rate book, 11070
Federal outlays, report of Federal Government's impact by State and county, 9553, 9604
landings—
by gear and subarea, 3913
fish and shellfish, 3108
mineral industry, minerals yearbook chapter, 957
pollution of Interstate waters of Blackstone and Ten Mile Rivers and tributaries, conference proceedings, 1895
preliminary reconnaissance for uranium, 7701
shoe manufacturing, wage chronology, supplement, 7171
- Massachusetts Institute of Technology, Federal Reserve-MIT econometric model, staff study, 11137
- Massachusetts Kidney Disease Planning Project, report, 16353
- Masser, Charles C., photographic study of bromine jet flowing in coaxial airstream and impinging on stagnation surface, 8650
- Massey, Calvin L., Arizona five-spined lps, 11164
- Mast, P. W., optimum packing of hollow spheres in buoyancy materials, 14752
- Mastenbrook, H. J., vertical distribution of water vapor over Washington, D.C., 13296
- Master cross reference list, 1785, 8130-31, 10949, 15523
- Master list of NASA management issuances, 5969
- Master plan report, Washington National Airport, 627
- Master's degrees, *see* Degrees (colleges and universities, etc.).
- Masterson, James R., writings on American history, 15028
- Masts and rigging, rigging cargo gear, 16007
- Matanzo, Francisco, soil survey of Delaware County, Ohio, 13445
- Matched-conic solutions to round-trip interplanetary trajectory problems that insure state-vector continuity at all boundaries, 4705
- Matchett, D. L., transport depletion evaluated with natural brackish water, 8835
- Matching sheepskins with jobs, employment outlook for college graduates, 5910
- Materials:
advancing material of indeterminate-length, classification definitions, 1289
atomic, program, AEC authorizing legislation, 1970, hearings, 9243
building materials, USSR industrial development, translations, 3556
consumption items, list, 1967 censuses of manufactures and mineral industries, 5227
control under Apollo program, procedures and practices, GAO review, 722
glovebox window materials, fire safety application, 6174
high temperature chemistry and physics of, bibliography, 6049, 10176, 16226
high temperature materials, ARPA-NBS program of research, 16228
materials and material processes series, arc welding, 12377
metallurgical characteristics and performance of materials used for sliding electrical contacts, 17207
metallurgy and materials research program, 9081
micromorphic material constants from properties of constituents, how to determine, 7240
national policy goals and programs, review, 14061
preservation, packaging, packing, Federal test method standard, 12651
reactor, quarterly technical progress review, 3365
science—
East European abstracts, 2782
USSR abstracts, 3567
standard reference materials—
National Bureau of Standards, catalog and price list, 4761, 16224, 17264
news for users, 3199
structural, members in vacuum, thermal analysis, 1099
superconductive, and some of their properties, 10180
symbols for packages and containers for hazardous industrial chemicals and materials, military standard, 14108
see also Composite materials—*also* names of materials.
- Materials handling:
advancing material of indeterminate-length, classification definitions, 1289

Materials handling—Continued

Army technical manual, changes, 7667, 9051, 11948, 15053

equipment—

Federal item identification guides for supply cataloging, supplements, 2842

Kennedy round, special report, 8484

improved handling methods and layout in affiliated frozen food warehouses, 5049

in small business, improvement methods, 7452

research, hydraulic transportation of coarse solids, 14549

standard time data, manual, change, 539, 16922

unit-load explosion in food industry, study of several systems, 15768

Materials Research, Institute for, *see* Institute for Materials Research.

Materiel, *see* Military supplies.

Materjak, R. J., Bossler coupling, 4671

Mathai, H. F., floods of June 1965 in South Platte River basin, Colo., 15816

Mathematical analysis, *see* Mathematics.

Mathematical models, *see* Mathematics.

Mathematicians:

employment outlook, 4521

Federal jobs, big pond, 9191

why not be a mathematician? careers for women, 1494

Mathematics:

analytic function models of noise and modulation, 13140

cardiac function algorithm, constructing, USSR study, 12908

civilian career opportunities, Navy Department, 2360

class of optimum orbit modifications, analytical solutions, 13044

curricula for intermediate grades, space oriented concepts, 11401

cybernetics, regulation theory and mathematics, 15985

development of mathematical models for describing ship structural response in waves, 6223

East European abstracts, 2783

efficient method for computation of character tables of finite groups, errata, 2220

ellipsoidal velocity distribution function, 5998

family of solutions of certain nonautonomous differential equations by series of exponential functions, 4689

Federal jobs, the big pond, 16689

flight dynamics of general parachute-pay-load system, mathematical model for calculating, 2227

FORTTRAN program for machine computation of group tables of finite groups, 14641

functions, development of 3-dimensional pressure-distribution functions for lifting surfaces with trailing-edge controls based on integral equation for subsonic flow, 17220

Hartree-Fock calculations with Wood-Saxon basis functions, 6014

Hodgkin-Huxley type system of differential equations, numerical treatment of thresholds and stationary values, boundedness theorems and other mathematical studies, 7226

mathematical analysis of Fitzgerald apparatus, 7286

mathematical determination of geometrical image aberrations in single- and double-mirror systems, 1052

mathematical geodesy, 15672

mathematical model and computer program, development of, for optimization of VTE saline water plants, 8417

mathematical model of nerve cell, standard neuron, USSR study, 15989

Mathematics—Continued

mathematical modeling of urban hydrologic systems, considerations involved in evaluating, 9932

mathematical models of epidemics, USSR study, 4441

mathematical sciences—

journal of research, National Bureau of Standards, 3025

trainees in vacation work-study programs, examination announcement, 12053

mathematical techniques for EPR analysis of S-5/2 ions in C₂ symmetry, application to Fe³⁺ in quartz, 11523

mathematics in space science (series), 11401

penti-hexagonal polyhedra, particular class, 6136

probability density functions of n vectors added with random directions, 16316

problems in mathematization of knowledge, USSR study, 8504

related fields, mathematicians, statisticians, actuaries, employment outlook, 4521

role in sociology, USSR study, 4433

secondary refrigerant freezing process, study, 798

solutions of blunt-body stagnation-region flows with nongray emission and absorption of radiation by time-asymptotic technique, 4755

stability indicative function for linear systems with multiple delays, determination, 6024

supersonic inlet dynamics, mathematical analysis, 2263

tables—

and graphs of functions necessary for solving nonlinear heat transfer constant area fin problems, 10119

associated Legendre functions of first and second kind of very large degree with arguments near unity, 13275

bias functions, B₁ and B₂, for variances based on finite samples of processes with power law spectral densities, 4765

converting pH to hydrogen ion concentration [H⁺] over range 5-9, 9089

factors for use in determining unearned charge on FHA title 1 property improvement loans, prepaid or refinanced, 638

lateral shielding requirements of high energy accelerators, 5153

to improve secondary school science and mathematics teaching, history of National Science Foundation's programs, 4812

two dimensional inviscid jet flow from 2 nozzles at angle to plane surface, 6012

USSR abstracts, 3568

see also Coefficients—Equations—Iteration (Mathematics)—Optimal processes—Vectors (mathematics).

Mathieu functions, Mathieu's equations for complex parameters, tables of characteristic values, 15015

Mathis, A. G., government's role in pricing fluid milk in United States, 1801

Mathis, Evelyn S., socioeconomic characteristics of deceased persons, United States, 1962-1963 deaths, 6213

Matloff, Maurice, American military history, 13005

Matrices (mathematics):

capital flow matrix, 896

stiffness matrices for analysis of flat plates, study, 2237

transition matrices, transient vibration analysis of linear systems, 1035

- Matrix theory, application for establishing independent coordinates for complex dynamical systems with constraints, 16206
- Matson, Arthur J., economic effects of using substandard quality water in Webster and other communities in South Dakota, 17095
- Matter:
- electron interaction, 1017
 - particulate, air quality criteria, 16356
- Matthews, Clarence W., numerical analysis of use of perforated walls to control shock location and movement in internal-compression supersonic inlet, 13141
- Mattresses:
- cleaning and renovating cotton felted mattresses, Federal standard, 8256
 - current industrial reports, 2732, 13761
 - plastic mattress handles from Canada, determination of no injury to U.S. industry, 16493
- Mattson, W. J., do pine gall weevils affect cone production in red pine? 11175
- Maul, George A., precise echo soundings in deep water, 6912
- Mauldin, Lemuel E., III, optical system for recording schlieren images with continuous-writing ultra-high-speed framing camera, 4718
- Mauritania, Algeria boundary, study, 4966
- Mauritius:
- capsule facts for Armed Forces, 3724
 - tracking station, agreement, 2501
- Maxwell National Wildlife Refuge, plan, 2467
- Maye, Richard F., on determination of micro-morphic material constants from properties of constituents, 7240
- Mayer, Martin, American mood in foreign affairs, U.S. National Commission for UNESCO, memo, special issue, report, 16483
- Mayers, J., maximum load prediction for sandwich plates, 11951
- Mayo, Alton P., analytic approximations for application to spacecraft optical navigation on short data arcs, 1088
- Mayo, Clyde C., survey of 28 Air Force career ladders with 19 job inventories, 8997
- Mayonnaise:
- and related products—
 - current industrial reports, 12004
 - industry report, 11978
- Mayors, elected for District of Columbia, hearing, 9455
- Maypa, Visitation E., relief, 9277
- Maywood Plant, Los Angeles, Calif., American Bridge Division, U.S. Steel Corp., transmission towers and parts, effects of importation on employment of certain workers, Tariff Commission report, 17417
- Mazure, James E., remarks, Sept. 4, 1969, 14211
- MDR, *see* Model Reporting Area for Blindness Statistics.
- MDAA (manpower development and training act), *see* Manpower.
- Me, 14120
- Meacham, Charles H.:
- nomination—
 - hearings, 8057
 - minority report, 10823
 - report, 9385
- Mead, John F., drawing jurisdictional lines in mediation, 11354
- Mead, Walter J., competition for Federal timber in Pacific Northwest, analysis of Forest Service and Bureau of Land Management timber sales, 12710
- Meador, Willard E., semiempirical collision model for plasmas, 10156
- Meadow spittlebugs, *see* Spittlebugs.
- Meals, *see* Food.
- Meanley, Brooke, natural history of king rail, 14883
- Meany, George, testimony, 15451
- Measles, rubella surveillance, National Communicable Disease Center, 13358
- Measure of our land, 10492
- Measurements:
- absolute, of alpha emission and spontaneous fission, 3801
 - English and metric systems of measurement, brief history and use, 14671
 - experimental, of expanding storable propellant products simulated by combustion of gaseous reactants, 14642
 - flow measurements through high-head turbines and pumps, potential economic benefits from use of radioisotopes, 10347
 - formalization of measurement scale forms, 11481
 - geomagnetic field variation measurements, induction loop antennas, 14164
 - laser beam spread and curvature over near-horizontal atmospheric paths, 9726
 - liquid and 2-phase hydrogen densities with capacitance density meter, 10103
 - making valuable measurements, proceedings, standards laboratory conference, 8669
 - methods, for semiconductor materials, process control, and devices, 2297, 6053, 11526, 16229
 - reliability measurement program, guide manual, 1271
 - statistical exposition, 1272
 - repeated or continual, of cardiac output in squirrel monkey (*Saimiri sciureus*) by thermodilution, 14496
 - satellite radiation measurements, of atmosphere's geopotential height distribution, 6921
 - tree seedlings, assimilation chamber for measuring carbon dioxide exchange in laboratory, 14286
 - photosynthesis, outdoors, 14285
 - ultrasonic detection and measurement of fatigue cracks in notched specimens, errata, 2221
 - users bulletin, 2284, 8666, 10173, 11515, 14664
 - see also* subject of measurement.
- Measures, *see* Metric system.
- Measuring hamlet security in Vietnam, 5358
- Measuring instruments:
- density-gradient column as tool for measuring sea water density, 1268
 - Federal item identification guides for supply cataloging, supplements, 2843
 - sonic boom simulator, techniques and measurement devices, investigation, 12595
 - weighing and measuring devices, specifications, etc., replacement pages, 14663
- Measuring machine and equipment noise, 2069
- Measuring tools, *see* Measuring instruments.
- Meat:
- and meat products—
 - marketing, list of references, 10165
 - USDA's acceptance service, 10485
 - and poultry—
 - labeled for you, 16542
 - wholesome for you, 16541
 - commercial production, 8905
 - cost-benefit analysis of radiation pasteurization of meat under centralized cutting conditions, 16624
 - for your freezer, how to buy, 7593
 - foreign agriculture circulars, 2902
 - freezing in home, 39
 - fresh meat packaging, evaluation of selected wrapping films, 7569
 - home canning, 6380
 - how to use USDA grades in buying, 6394
 - industry—
 - Ireland, 11154
 - technical terms, 6816
 - inspection procedures manual, 3099, 1749, 8104-6, 12328, 16900-902

Meat—Continued

- inspection, Federal, statistical summary, 8100
- inspection regulations of USDA, 3372
- institutional purchase specifications, approved by USDA portion-cut products, 4103, 5470
- livestock and meat situation, 3080
- market news weekly summary and statistics, 3081
- meat inspection program, MIP guidelines (series), 6816
- processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 508, 10922
- purchase specifications, requirements, approved by USDA, 1747-48, 5469, 8097, 9503, 10921
- radiation pasteurization of fresh meats, 5151
- selected, homemakers' opinions—
 - nationwide survey, 11874
 - preliminary report, 2507
- statistics, supplement, 13607
- see also* Packing industry.
- Meat animals, *see* Livestock.
- Meat packing plants, *see* Packing industry.
- Meats, *see* Meat.

Mechanical and physical hazard series, 16007

- Mechanical behavior, of tantalum-base T-111 alloy at elevated temperature, 16143

Mechanical engineers:

- civilian career opportunities—
 - Air Force, 1529
 - Navy Department, 2360
- employment outlook, 4505
- Mechanical equipment, *see* Machinery.
- Mechanical fans, current industrial reports, 6496
- see also* Fans.

- Mechanical improvement of 26-inch refractor, 10214

- Mechanical instrument makers, *see* Instrument makers.

- Mechanical power transmission, *see* Power transmission.

Mechanical properties:

- and column behavior of thin-wall—
 - Be-38 Al alloy tubing, 8629
 - beryllium tubing, 1069
- and heat treatment of molybdenum-hafnium-carbon alloys, exploratory study, 5997
- ceramics, proceedings of symposium, 8668
- high-temperature, polycrystalline hafnium carbide and hafnium carbide containing 13-volume-percent hafnium diboride, 4735

- Mechanical sizing of celery stalks by weight, 1509

- Mechanical vibrations, *see* Sound.

Mechanics (persons):

- aircraft mechanics—
 - job grading standard, civil service, 7775
 - comparing prediction of job performance ratings from trait ratings, 11888
- apprentices, mechanical trades, examination announcement, 6523
- automotive mechanic—
 - entry, suggested guide for training course, 12424
 - job grading standard, civil service, 7776
- aviation, inspection authorization, handbook and study guide, 11046
- aviation structural mechanic
 - E 3 & 2, Navy training course, 10242
 - S 3 & 2, 14738
- diesel servicing, suggested 2-year post high school curriculum, 16954
- electrical appliance serviceman, suggested guide for training course, 14133
- employment outlook—
 - air conditioning and heating mechanics, 4475
 - appliance servicemen, 4476

Mechanics (persons)—Continued

- employment outlook—continued
 - automobile mechanics, 4478
 - automobile service advisors, 4478
 - bowling-pin-machine mechanics, 4483
 - diesel mechanics, farm equipment mechanics, 4497
 - elevator constructors, 4557
 - industrial machinery repairmen, 4520
 - optical mechanics, 4499
 - truck and bus mechanics, 4478
 - vending machine mechanics, 4563
- refrigeration mechanics, suggested guide for training course, 4182
- sheet metal mechanic, job grading standard, 16685
- vending machine repairman, suggested guide for training course, 4190

Mechanics (science):

- complex dynamical systems with constraints, new matrix theorem and its application for establishing independent coordinates, 16206
- coupled acousto-mechanical systems, transient response, 14588
- fluid mechanical problems on subsonic and supersonic aircraft, report, 1041
- fracture mechanics as related to Neuber stress concentration factor and plastic particle, 13302
- integration of metallurgical and fracture mechanics concepts of transition temperature factors relating to fracture-safe design for structural steels, 13300
- mechanics for safety man, 17142
- mixing of compressible air jets in coaxial configuration, experimental investigation, 11492
- see also* Celestial mechanics.

- Mechanisms with elastic couplings, dynamics and stability, 14650

Mechanization:

- how mechanization of harvesting is affecting jobs, 8560
- potential mechanization in flue-cured tobacco industry, with emphasis on human adjustment, 15618

- Medal of Honor, 1863-1968 recipients, 5459

Medals:

- commemorative—
 - Alabama sesquicentennial—
 - law, 12114
 - reports, 9313, 9408
 - American Fisheries Society centennial—
 - law, 9239
 - report, 7928
 - 50th anniversary, U.S. Diplomatic Courier Service—
 - law, 15196
 - reports, 7926, 12268
 - gold, strike in honor of American astronauts, report, 15357
 - 100th anniversary of founding American Fisheries Society, report, 6766
 - 150th anniversary of founding of Memphis, Tenn., report, 448
 - 300th anniversary of founding of South Carolina—
 - law, 9242
 - report, 7924, 9409
- Wichita centennial—
 - law, 10680
 - report, 7927, 9411
- Winston Churchill Memorial and Library dedication—
 - law, 9238
 - report, 6765, 7925
- issuance, laws, compilation, 347
- United States Mint, issued for public sale, 13033
- see also* names of medals.

- Medenica, Walter V., blast shields testing, 1112

- Mediation, *see* Arbitration—Industrial arbitration.

INDEX 1969

Medicaid, *see* Medical assistance—Public assistance.

Medical and dentistry support, Fleet Marine Force manual, 7194

Medical and Occupational Radiation Program, MORP series, 2421, 4884, 6188-93, 11619, 13353

Medical apparatus, *see* Medical instruments and apparatus.

Medical assistance:
 financed under public assistance titles of social security act, 2298, 7333, 8673, 13162, 16235

medicaid—
 Intergovernmental problems—
 ACIR hearing, 3615
 commission report, 3616
 medicaid-medicare study, staff data, 14026
 1968 fiscal year, 7332
 or medicare, which is which? 11369

medicaid, State obligations—
 law, 15204
 report, 10846

State plans, staff development provisions, 10364

Medical care:
 aged persons, costs and delivery of health services to older Americans, hearings, 8050

coverage of drugs, Task Force on Prescription Drugs, Interim report, 4381

current medicare survey reports—
 CMS series, 4933-34, 10367, 11666-667, 17381
 medical insurance sample, 4934, 11667
 prescription drugs, 10367, 11666

directory of providers of services under health insurance for the aged—
 extended care facilities, 1389
 home health agencies, 1389A
 hospitals, 1390
 independent laboratories, 1391

distribution of SMI bills and reimbursements by type of service, 13435

durable medical equipment under medicare, 10377

emergency food and medical services, OEO program, guidelines, 9637

emergency medical services, 16243

evolution of medicare . . . from idea to law, 13438

facilities available to Federal employees injured in performance of duty, 16966

facility projects approved for Federal aid under Hill-Burton program, register, 2418

health care in America, hearings, 5447

home health benefits under medicare, 10375

hospital and medical facilities construction and modernization amendments of 1969, hearings, 14056

human needs, provide for poor—
 Florida, hearings, 10917
 national nutrition survey, hearings, 5463, 8087, 10917, 12316, 14058, 15478, 16895

improvements made in cost accounting system, Veterans Administration, GAO report, 14319

international comparisons, utilization, feasibility study, 11641

lack of assistance, study, authorization, reports, 1727, 5420

medical service—
 applied clinical nutrition, Air Force manual, 7626
 Indian Health Services, annual statistical review, 7420

medical support, Fleet Marine Force manual, 7194

medicare—
 annual report, 5335
 blood transfusions, insurance coverage, 16421

Medical care—Continued

medicare—continued
 first 3 years, medical care price changes, 16416

health insurance for people 65 or older, brief explanation, 6238, 10376

health insurance under social security, handbook, Spanish edition, 10380

hospital insurance benefits in extended care facility, 13440

hospital services length of stay of patients discharged from short-stay hospitals, 4935

important facts about medical insurance, 6236

medicaid-medicare study, staff data, 14026

medicaid, medicare, which is which?, 11369

medical insurance—
 benefits, important facts, 7461
 \$50 annual deductible, 16420
 under social security, handbook, 7463

1966-67, reimbursement by State and county, 11665

number using services, 1967, estimate, 4933

payments for services of supervisory and teaching physicians at Cook County Hospital, Chicago, Ill., GAO report, 17055

personnel qualifications, 14380

problems affecting eligibility of hospitals under program, need for timely action by Social Security Administration, GAO report, 1948

program—
 costly problems, hearings, 15432
 current data (paper), 16412

providers reimbursement manual, revision, 2452

supplementary medical insurance, premium rate, statement, 5732

use of general hospitals by aged psychiatric patients, study, 8855

utilization of short-stay hospitals, selected characteristics of discharged patients, 6232

your health insurance, 7460

medicare newsletter, 3110

military, dependents eligible, to include foster child, amend U.S. Code, hearings, 7949

mortality of aged before and after medicare, 10366

nuclear handbook for medical service personnel, Army technical manual, 16601

older veterans medical benefits, amend U.S. Code, report, 9316, 16864

outlays for aged and nonaged persons, 1966-68, fiscal years, 13436

price changes, medicare's first 3 years, 16416

prices, fact sheet, 10368

public assistance, vendor payments—
 by program and source of funds, 11529
 by type of service, 2303, 8674

reducing costs of hospitalization, medical services, and drugs provided to Federal employees for job-related disabilities, GAO report, 9877

regional medical programs—
 and their relationships to urban community and the poor, 2427
 for heart disease, cancer, stroke, etc., progress report, 4891
 guidelines, 6182

reimbursement incentives for hospital and medical care, objectives and alternatives, 4939

research, use of hospital data, report, 10337

role of medicine for emergency preparedness, 4877

standards of medical fitness, Army regulation, 5107

Medical care—Continued
 tax deduction for medical and dental expenses, 8427
 training in first aid and emergency medical treatment, 11939, 16588
 treatment of mass civilian casualties in national emergency, 1350
 trends in negotiated health plans, broader coverage, higher quality care, 11352
 uniformed services health benefits program, 13651
 utilization by disabled, 6231
 Veterans Administration program—
 hearings, 15476
 operation, 9374
 veterans, outpatient care, amend U.S. Code, report, 9317, 16866
 veterans with service since Jan. 31, 1955, medical, dental and hospital benefits, 8933
 your social security, 1402, 7462
see also Health—Health insurance.
 Medical certificates:
 airmen, physical standards, Federal aviation regulations, 6930
 reviewing and acting on, FPM manual, supplements, 2857
 Medical Department, Army:
 internal medicine in World War II, infectious diseases and general medicine, 6463
 medical supply in World War II, 184
 Medical Department, Navy, manual, changes, 917, 4616, 8572, 11370, 16056
 Medical education, *see* Medicine.
 Medical examinations, *see* Physical examinations.
 Medical facilities, *see* Hospitals—Veterans hospitals.
 Medical Foundation of Bellaire, Ohio:
 neighborhood health services programs, grants awarded—
 hearings, 12224
 report, 15296
 Medical instruments and apparatus:
 capacitance transducer, biomedical applications, 5193
 durable medical equipment under medicare, 10377
 electromedical apparatus, principles of operation, installation, and use, 10159
 Federal item identification guides for supply cataloging, supplements, 2847
 information retrieval system for medical diagnostic equipment, USSR study, 4440
 Kennedy round, special report, 5800
 special aids use in homes for the aged and chronically ill, statistics, 2432
 X-ray equipment, preliminary results of X-ray protection surveys of facilities, 6189
 Medical insurance, *see* Health insurance.
 Medical Insurance Trust Fund, Federal Supplementary, *see* Board of Trustees of Federal Supplementary Medical Insurance Trust Fund.
 Medical journals, index medicus, cumulated, 7349
 Medical jurisprudence, international bibliography of medicolegal serials, 1736-1967, list, 13189
 Medical laboratories, independent, directory of medicare suppliers of services under health insurance for the aged, 1391
 Medical laboratory technicians, medical laboratory assistants, employment outlook, 4523
 Medical libraries, *see* Libraries.
 Medical literature, bibliography of medical reviews, 3165-66
 Medical literature analysis and retrieval system, MEDLARS services, guide, 1202, 8704
 Medical Nutrition Laboratory, Fitzsimons General Hospital, *see* Army Medical Research and Nutrition Laboratory.

Medical occupations, occupational analysis of computers in medical sciences, 16001
 Medical officers:
 examination announcement, 12052
 submarine service, background and motivational characteristics of candidates, 16068
 veterinary, examination announcement, 5264
see also Physicians.
 Medical Radiation Exposure Division, DMRE series, 11611
 Medical radiology, automatic collimator for medical diagnostic X-ray machines, development and evaluation, 6191
see also Radiology.
 Medical record librarians employment outlook, 4522
 Medical records, ambulatory service data system, 14778
 Medical research, *see* Medicine.
 Medical schools:
 advanced degree programs, 1951-67, contribution to training of faculties, 10195
 DHEW obligations, fiscal year, 1189, 17276
 full time faculty, fiscal year, 7347
 Medical service, *see* Medical care.
 Medical specialists, *see* Physicians.
 Medical supplies:
 emergency, hospital reserve disaster inventory, 14789
 Federal item identification guides for supply cataloging, supplements, 2847
 stored for national emergencies, transfer to another Federal agency before shelf life expires, report, 15402
 World War II, 184
 Medical technicians, *see* X-ray technicians.
 Medical technologists:
 allied health professions personnel training act of 1966, amended, report, 8683, 13167
 employment outlook, 4523
 examination announcement, discontinuance notices, 3874-75, 5257
 Medical treatment, *see* Medical care.
 Medical zoology, *see* Zoology.
 Medicare, *see* Medical care.
 Medicinal substances, *see* Medicines.
 Medicine:
 Academy of Medical Sciences, USSR, roster of nominees for membership, 15903
 aeromedical reviews, 80-81, 1538-39, 6415, 10524, 13627, 16570-571
 administration and management of biology and medicine research program, Atomic Energy Commission, GAO report, 7037
 aerospace—
 bibliography, 860
 borderline medical problems and fitness for flying, 86
 flight surgeon's guide, AF manual, 3685
 laser health hazards control, 6411
 medicine and biology, bibliography, 2558
 arthropods of medical importance in Latin America, 7657
 data on mosquitoes, 7656
 associate training programs, medical and biological sciences, NIH, 4775
 atom's expanding role in medical world (remarks), 5186
 aviation medical report AM series, 209-211, 1610, 5193-94, 6481, 7723-27, 9088-90, 10578-584, 11971, 16635-636
 aviation medicine FAA, 1966 report, 1610
 biological, legal aspects of medical science, USSR articles, 840
 bulletin of experimental biology and medicine (USSR periodical), translations, 15923
 computer technology, applications, USSR study, 11323

Medicine—Continued

computation engineering, USSR study, 15921
 FDA clinical experience abstracts, 2824
 film reference guide, supplement, 13179
 history, bibliography, 4791
 index medicus, 3165
 cumulated, 7349
 internal, in World War II, infectious diseases and general medicine, 6463
 medical and health related sciences thesaurus, 8697
 medical benefits from space research, 4691
 medical ethics, discussion by A. Billbin, USSR, 5836
 medical factors in U.S. general aviation accidents, 10584
 medical news letter, Medicine and Surgery Bureau, 3109
 medical problems and their solution, USSR study, 12907
 medical radiation protection, regulations, standards, and guides, annotated, bibliography, 13344
 medical research—
 and development articles, bibliography, 9062
 and development in progress, 193
 and education, career development program, 7556
 and education, 1966, 1969, support of foundations and nonprofit research institutes, resources analysis memo, 14695
 and educational activities of foundations and nonprofit research institutes, 4785
 and scientific work, USSR studies, 15951
 institutions named after medical men, 7351
 support, Army Medical Research and Development Command, 6464
 Veterans Administration—
 annual report, 7555
 report, 6732
 medical subject headings, 3165
 cumulated, 7349
 medically trained veterans where do you go from here?, Project REMED, 5546
 medicaments, Federal item identification guide, 14090
 military, crisis fleeting, India and Burma in World War II, original reports, 15061
 modeling in biology and medicine, USSR study, 12928
 Navy, statistics, quarterly, 3466
 near future, USSR study, 17126
 notes on biometry in medical research, 1488, 11765
 occupational analysis of computers in medical science, 16001
 personal, health examinations and the automated laboratory, 2416
 program, AEC authorizing legislation 1970, hearings, 9243
 regional medical programs—
 conference of coordinators, 2412
 selected bibliography, 2429, 10335
 resources for medical research, reports, 1199, 4785, 6066, 7347
 resource for medical research and education report, 10195
 role for emergency preparedness, 4877
 School of Aerospace Medicine, technical reports, 82-105, 1540-50, 3691-3717, 5083-84, 6416-21, 7635, 9006-11, 10525-533, 11900-906, 13628-633, 15017-21, 16572-575
 selected medical translations, USSR studies, 12904
 Soviet medical sciences look ahead, 8503
 Soviet research in Antarctica, 7151
 space medicine, biotelemetry gives data on space fliers, USSR study, 5863
 technical assistant, examination announcement, 16094

Medicine—Continued

United States-Japan cooperative medical science program, annual report, 6572
 USSR—
 Academy of Medical Sciences, vestnik (periodical), 3573
 medical conferences, 15910
 public health and medicine, 11324
 VA programs for sharing medical facilities and exchange of medical information, annual reports, 427
 see also Medical care—Nuclear medicine.
 Medicine and Surgery Department, Veterans Administration:
 career opportunities—
 dentistry, 4997
 physicians, 11766
 program of sharing specialized medical resources, amend U.S. Code, reports, 9319, 16868
 Medicines:
 medicinal and toxic fluorocarbon compounds, USSR study, 4449
 medicinal chemicals, synthetic organic, production and sales, 8914
 see Drugs.
 Medicolegal, see Medical jurisprudence.
 Mediterranean countries, United States Army operations in World War II, Salerno to Cassino, 16071
 Mediterranean Sea:
 central, Project FLOOD, report on data collected by Mine division 43, 13235
 lights and fog signals, list, change, 2335, 8751, 16303
 nautical charts and publications, catalog, 10228
 radio navigational aids, change, 6129
 sailing directions, 2331, 7372, 8746-47
 tide tables, 12059
 MEDLARS, see Medical literature analysis and retrieval systems.
 Medlock, Beverly, relief, 10705
 Medlock, Ruth L., relief, 10705
 Meetings, see Conferences, congresses, etc.
 Meeves, Henry C.:
 beryllium, 14523
 mineral industry of Wyoming, 2168
 Megafauna, see Fauna.
 Mehta, Unmeel B., flow in two-dimensional channel with rectangular cavity, 2202
 Meler, Robert R.:
 calculation of geomagnetic time, 11565
 on plane parallel representation in atmospheric radiation transfer, 6149
 Meler, Robert W., address, Apr. 23-25, 1969, 14937
 Melners, Alfred F., investigation of light-catalyzed chlorine oxidation for treatment of wastewater, 15744
 Melssner, Charles W., jr., navigation-aids identification decoder and display for general-aviation aircraft, 17224
 Meissner, William A., jr.:
 addresses—
 Dec. 11, 1968, 1611
 June 3, 1969, 11310
 Mejia, Silvio M., relief, 16841
 Mekong River and Valley:
 lower basin—
 Pa Mong, Nam Mun and Nam Chi projects, drainage investigations and requirements, report, 13397
 Pa Mong project, interim report, 8831
 physical, economic, and social resources, atlas, 5803
 Melich, Mitchell, nomination, hearings, 8076
 Meller, Floyd H., conversion of organic solid wastes into yeast, economic evaluation, 13335
 Mello, James F., foraminifera and stratigraphy of upper part of Pierre shale and lower part of Fox Hills sandstone (Cretaceous), north-central South Dakota, 14348

Mellor, Malcolm :
 investigation and exploitation of snow-
 field sites, 7651
 methods of building on permanent snow-
 fields, 3751

Melons :
 acreage marketing guide, 6805
 spring, 503

Melosh, R. J., manipulation errors in finite
 element analysis of structures, 14573

Melting :
 arc-melted tungsten-rhenium-hafnium-car-
 bon alloys, mechanical properties, 13123
 cold-mold arc melting and casting, 929
 inductoslag melting of titanium, 11383
 vacuum melting, residual gas analysis,
 mass spectrometry, 14556

Melton, C. E. :
 binocular fusion time in sleep-deprived sub-
 jects, 10583
 physiological studies on air tanker pilots
 flying forest fire retardant missions,
 10581

Melville, George S., jr., radiation mortality
 of rodents under hypobaric-hypoxic con-
 ditions, 11902

Melvin, Dorothy M., laboratory procedures
 for diagnosis of intestinal parasites, 17341

Melvin, Raymond C., relief, 10826, 13887

Member banks, *see* Federal Reserve member
 banks.

Membership directory, President's Commit-
 tee on Employment of the Handicapped,
 16333

Membrane filters, *see* Filters and filtration.

Membranes :
 asphaltic, for water seepage control, 14826
 built-up roofing membranes, laboratory-
 field comparisons, 4768
 cellulose acetate—
 and ultrathin films for reverse osmosis
 characterization, 15860
 methods to retard compaction in reverse
 osmosis desalination, study, 15861
 electrolysis, electrical properties, 5763
 improved cellulose acetate membranes, de-
 velopment for reverse osmosis, 4405
 membrane cells, new design concept for
 reverse osmosis, 15854
 membrane desalting plants, pretreatment
 methods, cost effectiveness study, 9967
 micellar formation by naturally occurring
 lipids and properties of reconstituted
 lipid membranes, studies, 796
 new membrane candidates for application
 in reverse osmosis, synthesis and evalua-
 tion, 15857
 permselective, influence of strongly bound
 counter-ions on, 4396
 porous glass membranes for reverse osmo-
 sis, research, 2007
 regenerative cellulose acetate membranes
 in-situ formation on porous tubular sup-
 ports, 17096
 reverse osmosis—
 containing graphitic oxide, 9961
 desalination, development, 804
 low pressure, design of small unit for
 brackish water, development, 11282
 membrane regeneration, 15864
 membrane, spiral-wound concept, 11283
 new and improved cellulose ester de-
 velopment, 8422
 rejection of various solutes, study, 11285
 thin-liquid-film unit for desalination, de-
 velopment, 9962
 synthetic, coupling phenomena, 7090
 synthesis and evaluation of new mem-
 brane candidates for application in re-
 verse osmosis, 2010
 transport depletion processes, develop-
 ment, 9974
 ultrathin, development, 4397
 ultrathin skin-hema polymers, develop-
 ment, 8415

Memorandums, *see* names of departments,
 etc., issuing memorandums.

Memorial services :
 Bartlett, Edward Lewis, 10675
 Eisenhower, Dwight D.—
 eulogies, print as House document, re-
 port, 15286, 16858
 print eulogies, report, 7921
 Everett, Robert A., 10674
 Holland, Elmer J., 3931
 Kennedy, Robert F., 3932
 Pool, Joe R., 1676
 Scudder, Hubert B., 1693
 print as House document, report, 382

Memorials, *see* National monuments and
 memorials.

Memory, memorized movement pattern, skill
 training for production of, 2204

Memory devices, *see* Magnetic memory.

Memory element flip-flop input equations,
 1570

Memphis, Tenn. :
 accounts and deposits in all commercial
 banks in district, summary, 9765
 area wage survey, 5908
 Mississippi River and tributaries in dis-
 trict, states and discharges, 12531
 150th anniversary of founding, commem-
 orative medals, report, 448

Mendeleyev, D. I., his periodic law and elec-
 tronic structure of atoms, USSR study,
 15960

Mendocino, Lake, part of Russian River proj-
 ect, Calif., general information, 15669

Mendocino National Forest, 1968 report,
 14300

Mendola, Lidl, relief, 16758

Menis, Oscar, Analytical Coordination Chem-
 istry Section, July 1968-June 1969, sum-
 mary of activities, 16232

Menn, Stuart J., response of normal man to
 graded exercise in progressive elevations
 of CO₂, 7635

Men's clothing, *see* Clothing.

Mensing, Arthur E., theoretical investiga-
 tions of R-F induction heated plasmas,
 8592

Mental disorders, *see* Mental illness.

Mental health :
 annotated bibliography on inservice train-
 ing—
 allied professionals and nonprofes-
 sionals in community mental health,
 8793
 key professionals in community mental
 health, 8794
 staff in residential institutions, 8795
 applied research grants, National Institute
 of Mental Health, Public Health Ser-
 vice, 14971
 community centers—
 bold new approach, 17331
 comprehensive program—
 annotated bibliography, 16338
 grants for construction and staffing,
 6173
 construction act of 1963, amended, se-
 lected titles, 4094
 statistical information system, 10320
 considerations in public health, guide for
 training and practice, 14690
 definition and measurement, 14786
 experimental and special training grants,
 NIMH guidelines for applicants, 17337
 first U.S. mission to U.S.S.R., special re-
 port, 7427
 from witchcraft and sorcery to head-
 shrinking, society's concern about men-
 tal health, 4881
 inexpensive materials, selected sources,
 13373
 mental health digest (periodical), 3113
 National Conference on Mental Health in
 Public Health Training, proceedings,
 10326

- Mental health—Continued
occupational mental health notes, 3158
opportunities for nursing careers, 6194, 16363
program reports, 7423
programs for the deaf and the hearing impaired, 16354
psychiatric-mental health nursing institutions offering stipends, list, 13351
State salary ranges of positions, 11259
statistics—
current facility reports, 7424, 14796, 17343-344
current reports, 6186-87
methodology reports, 10320
urban America, urban programs of National Institute of Mental Health, 8809
volunteer services in mental health, annotated bibliography, 16379
- Mental health centers, *see* Mental institutions.
- Mental hospitals, *see* Mental institutions.
- Mental illness:
mental and emotional illnesses in young child, 6185
veterans with mental disorders in VA facilities, 17344
- Mental institutions:
annotated bibliography on inservice training staff in residential institutions, 8795
community mental health centers—
act, amend, hearings, 15471
bold new approach, 17331
comprehensive program, grants for construction and staffing, 6173
construction act of 1963, amended, selected titles, 4094
construction, laws, compilation, 493, 5458
statistical information system, 10320
hospital improvement program, better care for mental patients, progress report, 7414
patients in public institutions for mentally retarded, 1967, statistics, 17343
patients in State and county mental hospitals, 1967, list, 14796
provisional patient movement and administrative data, public institutions for mentally retarded, 6186
residential services for mentally retarded, changing patterns, 4857
- Mental retardation:
abstracts (periodical), 3114
atlas, syndromes, visual diagnosis of facies and physical findings, 8836
biological factors, hope through research, 4882
career opportunities in field of mental retardation, 8384
construction program, research centers, etc., 11257
effect of differences in curricula and experiences on social work student attitudes and knowledge, 6060
facilities and community mental health centers construction act of 1963, amended, selected titles, 4094
facilities, construction, laws, compilation, 493, 5458
grants awarded by HEW, list—
construction, training and other, 15820
research and demonstration, 7066
Health, Education, and Welfare Department—
activities, 5731
publications, list, 8387
PCMR message, 3242
social sciences and mental retardation, family components, 4787
toward progress, story of decade, report, 17327
- Mental retardation, President's Committee on, *see* President's Committee on Mental Retardation.
- Mental tests, Goodenough-Harris test of intellectual maturity, comparison of timed and untimed presentation, 11642
- Mentally handicapped, fresh views on employment, special report (periodical), 3452
- Mentally ill:
better care for mental patients, hospital improvement program, 7414
employment of mentally restored, involvement for community organizations (periodical), 3009
mentally restored, selective placement in Federal civil service employment, handbook, 15142
patients in veterans hospitals, family plays important part in treatment, 10446
use of general hospitals by aged psychiatric patients, study, 8855
- Mentally retarded:
community facilities, progress report, 1338
facilities for, hospital and medical facilities series, 1338
help for mentally retarded, challenge to youth, 10290
mental retardation, its biological factors, hope through research, 4882
model cities, workshop report, 8777
opportunity, help for mentally retarded, 14848
patients in public institutions, 1967, statistics, 17343
public institutions, provisional patient movement and administrative data, 6186
residential services, changing patterns, 4857
selective placement in Federal civil service employment, handbook, 15142
university facilities for diagnosis, treatment, etc., construction, Public Health Service, grants, and awards, 1347, 16264
voluntary admission to Forest Haven institution to provide care, education and treatment, report, 7909
- Menus, planning guide for breakfast at school, 6813
- Menus for space flights:
aerospace rations, computer programing, 6418
food cubes aboard space vehicle, storage-dispenser device, 3694
nutrient-defined formula diets for aerospace metabolic experimentation, 87
- Menzie, Calvin M., metabolism of pesticides, 16458
- Meperidine, *see* Demerol.
- Meramec River, flood plain information, 9678
- Merced National Wildlife Refuge, birds, list, 2469
- Mercer, John C., expansion of automation in terminal ATC facilities, 14936
- Mercer County, N.J., Beden Brook basin floods, extent and frequency, 15797
- Merchandise, *see* Commercial products.
- Merchant, John, laboratory oculometer, 17200
- Merchant marine:
act of 1920, amend, hearings, 1705
act of 1936, amend.—
hearings, 407, 1705, 1738, 13934
law, 12125
reports, 10721, 10864, 15292
to provide new program hearing, 4075
- American flag merchant marine promotion (address), 1870
- American Merchant Marine Conference (remarks), 15715
- American ships are freedom's lifeline (remarks), 7806
- career opportunities (remarks), 10043
- crisis and opportunity (remarks), 16049
- disadvantaged young men prepare for well-paying careers in maritime fleet, training program for cooks, bakers, and butchers, 4195
- future of maritime industry (remarks), 915

Merchant marine—Continued

laws relating to, compilation, 3943
 long-range maritime program, establish, hearings, addendum, 407
 maritime industry, approach to problems in new administration (remarks), 5613
 maritime industry program (remarks), 10045
 maritime policy, come now, and let us reason together (remarks), 8570
 maritime problems (remarks), 5614
 maritime safety digest (periodical)—longshoring, 3103
 shipyards, 3104
 maritime subsidies, 7195
 maritime transportation consultations, agreement with Brazil, 2493
 miscellaneous legislation, hearings, 1705
 Navy League support (remarks), 14208
 1969 American Merchant Marine Seaman-ship Trophy presentation to African Star (remarks), 17164
 policy of Commerce Department towards merchant marine (remarks), 15173
 port management problems (address), 16704
 radar-equipped merchant ships, collisions, study, and preventive recommendations, 14720
 rate conferences and national interests (remarks), 640
 research and development (remarks), 14487
 restore American merchant marine to its rightful place (remarks), 11366
 role in national economy (remarks), 8569
 Seattle, prime example of progress (remarks), 5612
 technological advancement (remarks), 13808
 transportation changes (remarks), 17165
 United States, faith in future (remarks), 1871
 United States maritime policies and their relationships to free world commercial and security interests (remarks), 8209
 United States Merchant Marine Academy graduation ceremonies (remarks), 10044
 who needs ships? you do! (remarks), 15716
see also Shipping—Ships.

Merchant Marine and Fisheries Committee, House:
 activities, 90th Congress, committee print, 6725
 calendar, 3046
 committee prints, 410, 6725
 hearings, 407-409, 1705-7, 6724, 7967-68, 9362, 12235-238, 13934
 investigations and studies—
 authorization, report, 6648
 expenses, report, 6672
 reports, 7885, 7889, 7939, 7969, 10721, 12185-186, 12188, 12190, 15230, 15291-292

Merchant Marine Council, proceedings, 3336
 Merchant ships, *see* Ships.
 Merchant vessels, *see* Ships.

Mercury:
 and other trace elements in sphalerite and wallrocks from central Kentucky, Tennessee, and Appalachian zinc districts, 1957
 boiler for SNAP-8, design-point performance of double-containment tantalum-and-stainless-steel, 1137
 cadmium telluride as 1- to 20-micro-meter wavelength infrared detector for space applications, 1121
 cobalt alloy, two-phase mercury loop, corrosion, 13109
 counterflow double-containment tantalum-stainless steel mercury boiler, design and fabrication, 8617

Mercury—Continued

donation of surplus mercury for educational and public health purposes, Health, Education, and Welfare Dept., GAO report, 7028
 flow of mercury in porous media in transverse magnetic field, experiments, 10060
 mercury in soil gas and air, potential tool in mineral exploration, 4357
 mineral industry survey, quarterly, 3115
 minerals yearbook chapter, 14536
 precision of mercury differential thermometers in heat-of-hydration test, 15665
 xenon-mercury, short-arc lamp immersed in water, operating characteristics, 11567

Merewether, E. A., geology of Coal Hill, Hartman, and Clarksville quadrangles, Johnson County and vicinity, Ark., 5717

Mergers, *see* Business consolidations—Railroads.

Merit systems:
 State and local systems, extend to additional programs financed by Federal funds, hearings, 8070
 State, directory, 758

Meriwether, Louise, do your own thing and stay in school, 5536

Merkel, Edward P.:
 control of insects in slash pine cones with trunk implantations of Bldrin systemic insecticide, 9864
 field screening of insecticides for control of pine sawfly, Laspeyresia anaranjada, 7013

Merrell, John C., Jr., Santee recreation project, Santee, Calif., final report, 12662

Merriam, Ida C., social welfare expenditures under public programs in United States, 13996

Merrill, Carl C., beneficiation of titanium chlorination residues, 4642

Merrill, Ronald B., thermal conduction through evacuated idealized powder over temperature of 100°-500°K, 7260

Merrimack River, pollution of interstate waters, Mass.-N.H., conference proceedings, 17006

Merritt Dam, technical record of design and construction, 4911

Merritt Island National Wildlife Refuge, general information, 2476

Mersman, William A., unified treatment of lunar theory and artificial satellite theory, 16193

Mertie, John B., Jr., economic geology of platinum metals, 12785

Mertins, Paul F.:
 financial statistics of institutions of higher education—
 current funds, revenues, and expenditures, 4169, 12432
 property, 9653, 15631
 selected, 16963
 student financial aid, 4170, 12433

Mesa Verde National Park, environment, Wetherill Mesa studies, 16267

Mesavage, Clement, revised calculator for Barr and Stroud dendrometer, 8302

Mescalero, N. Mex., Eight Canyon Job Civilian Conservation Center, effectiveness and administration, GAO report, 11211

Mesilla, N. Mex., ground water in Mesilla Valley shallow, quality, 14354

Mesilla Park fiber sorter, instrument for sorting short fibers and long fibers in cotton lint, 6

Mesosphere, theoretical comparison of beads, wires, and films as rocketsonde temperature sensors in mesosphere, 4688

Mesozoic era:
 new formations in east-central Alaska, 11230
 Star Peak Group (Triassic) and overlying lower Mesozoic rocks, Humboldt Range, Nev., stratigraphy, 7053

Mesquite, Tex.:
flood plain information, 12478
South Mesquite Creek floods, how to avoid damage, 12539

Messengers:
assignment, Washington, D.C., with State Department, 4968
examination announcement, amendment, 5250

Messes, ashore, Navy manual, change, 4831

Messina, Carla G., Edpac, utility programs for computer-assisted editing, copy-production, and data retrieval, 6052

Meta-benzenedisulfonic acid, *see* Benzenedisulfonic acid.

Metabolism:
dietetic manual for metabolic kitchen units, 14686
effects of 6-month exposure of small animals to helium-oxygen atmosphere, 17197
endocrine-metabolic effects of transatlantic helicopter flight, 101
endocrine-metabolic responses to—
parachuting, 103
sequential decompression during simulated orbital flight, 97
iron, measuring in hematopoietic centers using iron-59 in presence of chromium-51 and iodine-125, 104
nitrogen, in *Chlorella pyrenoidosa*, 16574
nutrient-defined formula diets for aerospace metabolic experimentation, 87
pesticides, review, 16458
water-salt metabolism during spaceflight, USSR study, 854

Metal bars, *see* Bars (metal, etc.).

Metal coating, metalizing equipment, industrial plant equipment handbook, 5481

Metal crystals, *see* Crystals.

Metal cutting:
industrial plant equipment handbook, 5481
welding and flame-cutting processes and practices, 7453

Metal foils, trade and tariff information, summaries, 1463

Metal fusion-bonding apparatus, 11577

Metal powders, *see* Powders.

Metal shapes, *see* Shapes (metal).

Metal sheeting, *see* Sheet metal.

Metalizing, *see* Metal coating.

Metallic films:
rocketsonde temperature sensors in mesosphere, theoretical comparison, 4688
thin-film microelectronics, engineering fundamentals, USSR study, 2052

Metallization of iron ores with solid reductants, 14554

Metallurgical engineers, employment outlook, 4505

Metallurgy:
and materials research program, 9081
characteristics and performance of materials used for sliding electrical contacts, research, 17207
East European scientific abstracts, 2782
integration of metallurgical and fracture mechanics concepts of transition temperature factors relating to fracture-safe design for structural steels, 13300
maraging steels, 18-percent nickel, metallurgy, behavior, and application, 4697
metallurgical technology, 2 year post high school curriculum, 4178
nuclear, reprocessing of nuclear fuels, symposium, 15075
powder, W-20 percent Mo alloy fabricated by homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of, 4762
sigma phase formation and its effect on stress-rupture properties of IN-100, 10122

Metallurgy—Continued

USSR industrial development, translations, 3559
USSR scientific abstracts, 3567

Metals:
adhesion, surface cleanliness during testing, method for characterizing, 6009
anomalous concentrations in Mill Canyon area, Cortez quadrangle, Eureka and Lander Counties, Nev., 743
base metal properties, flame straightening and its effect, 14854
chemical role of metals in nucleic acids discussed, USSR study, 11329
common, corrosion resistance to concentrated and 6% solutions of light water fire-extinguishing agent, 17315
consumed in manufacturing and construction, 5198
consumption and stocks at brass and wire mills, mineral industry survey, monthly, 2629
corrosion in tropical environments, 14744
Cripple Creek district, Colo., distribution, 14350
detecting impending fatigue failure in metals by observation of surface chemical and physical phenomena, feasibility, 11952
determine if correlation exists between metal fatigue life and capability of metal to absorb or retain inert gas, study, 15057
distribution, Slana area, eastern Alaska Range, Alaska, 11236
ductile, into ultrafine powders by grinding, role of chemical reactions in mechanism of comminution, 1087
eliminated from organism by complexation, USSR study, 8497
esters and metal organics, technical grade military standard, 4136
founding, classification definitions, 4840
heavy metals program, Geological Survey progress report—
field studies, 9892
topical studies, 11237
industries, technologic trends, minerals yearbook chapter, 987
industry, some relations to problems of Government and trade (address), 5200
joining refractory metal compounds by hot pressing, 4646
liquid metals, collection of materials, 11502
low-resistivity, lubricated with sputtered molybdenum disulfide films, friction and contact resistance during sliding in vacuum, 13124
metal and fabricated metal products manufacturing, industry trend, 7730
metal components for long-term development of Egypt's corrosive ground waters, selection, 14357
metal-gas systems, use of thermodynamic properties as reduced-pressure standards, 4683
metallic catalysts, hydrogenation of ethylene, errata, 8667
metals and metal products, trade and tariff information, summaries, 1463-64, 7541
minor, minerals yearbook chapter, 16090
nonferrous industry, secondary, economic impact of air pollution controls, 9093
nonferrous, removal from synthetic automobile scrap on heating in rotary kiln, 2177
platinum and associated elements at New Rambler mine and vicinity, Albany and Carbon Counties, Wyo., 1962
procedures for analysis of metals, alloys, and other materials of research, 10266
refractory-metal wires at 2000° and 2200°F, stress-rupture and tensile properties, 7297

Metals—Continued

- refractory, solubility, in potassium and lithium, 11417
- reinforced on surface with bonded filaments, compressive properties, and column efficiency, 1101
- scraps, temporary suspension of duties, continue—
 - law, 12110
 - reports, 7900, 9438
- self adhesion, influence of gaseous environment, 1091
- separation and characterization of metallo-organic materials, 11388
- solar absorptances and spectral reflectances of 12 metals for temperatures ranging from 300 to 500K, 13128
- Soviet journal, selections, 15982
- structural ferrous, 16 years' exposure to sea and fresh water, 14744
- water metals, report of study, 14779
- yearbook, 1967—
 - departmental edition, 4633
 - document edition, 3945
- see also* Alloys—Ferrous metals—fracture of metals—*also* names of articles made from metals—*also* names of metals.
- Metalworking machinery:**
 - current industrial reports, 2733, 5210
 - Federal Item Identification guides for supply cataloging supplements, 2843
 - shipments 1958-67, patterns of industrial growth, 7733
 - USSR industrial development, translations, 3560
- Metamorphic rocks, *see* Rocks.
- Metaphor as pure adventure, lecture, 908
- Metaphors, hygienic significance as atmospheric pollutant, USSR study, 15904
- Metcalf, Z. P., general catalogue of Homop-tera, 12
- Meteorites, gold contents reported, 741
- Meteoroids, *see* Meteors.
- Meteorological apparatus and instruments, *see* Radiosondes.
- Meteorological Center, National, *see* National Meteorological Center.
- Meteorological Rocket Network, Experimental Inter-American, *see* Experimental Inter-American Meteorological Rocket Network.
- Meteorological rockets, *see* Rockets.
- Meteorological satellites, *see* Satellites.
- Meteorologists, employment outlook, 4501
- Meteorology:**
 - American Meteorological Society abstracts, 3203
 - artificial modification of clouds and fogs, USSR study, 5841
 - data report, meteorological rocket network firings (periodical), 2747
 - Federal meteorological handbooks, 306-307, 7797
 - Federal plan for meteorological services and supporting research, 1970 fiscal year, 4218
 - Government meteorological research and test facilities, catalog, 16970
 - hemispheric teleconnections of mean circulation anomalies at 700 millibars, 12573
 - improvement of clear column radiance determination with supplementary 3.Su window channel, 14163
 - marine surface observations, Weather Bureau observing handbook, 10455
 - meteorological research, cloud-seeding project, agreement with Philippines, 11720
 - meteorological rocket research—
 - agreement with Canada, 11724
 - current requirements for observations and analysis above 60 kilometers, 5985
 - processing and display experiments using digitized ATS-1 spin scan camera data, 14171

Meteorology—Continued

- publications, price list, 8790
- records documentation, 617, 1839, 6922, 11030
- Route 17, Panama, preliminary meteorological data summary, interoceanic canal studies, 613
- satellite data, television cloud photography, catalog, ESSA 3 and ESSA 5, 1839, 6922
- satellite meteorology, USSR study, 12929
- subsynoptic advection operational model, description, etc., 16972
- surface observations manual, S934
- synoptic—
 - code, standards and procedures for coding synoptic reports, 306
 - temperature-depth observations in Tongue of Ocean, Bahamas, comparison, 13227
 - weekly analyses, 5-, 2-, and 0.4-Millibar surfaces for 1966, data from Meteorological Rocket Network, 11028
- see also* Hydrometeorology—Weather.
- Meteorology and hydrology (USSR periodical):**
 - translations, 3116
- Meteors:**
 - meteoroid environments determined from photographic meteor data, 16205
 - sporadic photographic, unaccelerated geocentric velocities and influx rates, 10148
- Meters, field strength, 30Hz to 1 GHz, calibration principles and procedures, 8671**
 - see also* names and types of meters, or substance, etc., measured.
- Methanes:**
 - liquid-methane fuel in supersonic transports, helium pressurization systems, 17252
 - methane-fluorine-oxygen and butene-1-fluorine-oxygen rocket performance, nonequilibrium calculations, 4721
 - methane ionization detector, extended testing, 7690
- Methanethiol, *see* Methyl mercaptan.
- Methanol, solubilized, effect on micelle size in nonpolar solvent, 2357
- Methanometers, portable recording methanometer, Mines Bureau, description, 11385
- Method of characteristics, for steady 3-dimensional supersonic flow with application to inclined bodies of revolution, 17218
- Methodology:**
 - long range forecasting, Air Force symposium, 78
 - methodology for today's tasks, workshop proceedings, 4932
 - training, annotated bibliographies—
 - audiovisual theory, aids, and equipment, 8821
 - background theory and research, 8818
 - instructional methods and techniques, 8820
 - planning and administration, 8819
 - see also* subjects.
- Methyl mercaptan radiation chemical reactions of olefins with methanethiol, etc., 5159
- Methylpentynol:**
 - bibliography, 10394
 - efficacy as anesthetic on 4 salmonids, 10394
 - toxicity, to selected fishes, 10394
- Methylsilanes, radiation chemical reactions of olefins with methanethiol, etc., 5159
- Metric system:**
 - English and metric systems of measurement, with chart—
 - brief history and use, 4764
 - modernized metric system, 14671
 - metric dilemma (address), 310
 - modernized metric system, NBS chart, 2286

Metric system—Continued

practicability of increasing use in United States, Secretary of Commerce to conduct investigation, authorize appropriations, reports, 9405, 15294
recommended unit prefixes, defined values and conversion factors, 11516
study, authorization, hearing, 16823

Metropolitan areas, *see* Cities and towns.

Mettett, Wesley, soil survey of Osceola County, Mich., 11676

Metzbower, E. A., computer-plotted stereographic projections, 16315

Mexican American Affairs, Inter-Agency Committee on, *see* Inter-Agency Committee on Mexican American Affairs.

Mexican American Affairs Unit, report, 12440

Mexican-Americans:
culture, heritage, etc., handbook for educators, 14139

elderly, Federal programs and services, availability and usefulness, hearings, 12282

handicapped children, improving educational opportunities, 8171

history, civil rights problems, etc., paper, 9179

job gains of men, 598

Mexican American Affairs Unit report, 12440

new focus on opportunity—
guide to materials, 8408
report, 2000

persons of Mexican heritage in United States, guide to materials, 8408

viva la raza, education, search for identity, 5558

Mexican bean beetle, *see* Beetles.

Mexico:

background notes, 11695

commuter aliens, impact along Mexican border, hearings, 6351, 8935

earth resources, cooperative research in remote sensing for earth surveys, agreement, 7497

east coast, sailing directions, change, 7369

economic trends and their implications for United States, 7112, 17120

Enlilina (Diptera: Dolichopodidae), Mexican species, monographic study, 17375

foreign trade regulations, 9203

mineral industry, minerals yearbook chapter, 2151, 16086

northwest, nuclear power and water desalting plants, preliminary assessment conducted by Joint United States-Mexico-International Atomic Energy Agency study team, 5177-78

production areas, capabilities of supplying U.S. markets with fresh winter produce, 6856, 8150

radio broadcasting agreement, 7994, 10824

United States border, industrial and employment potential, 1798

uranium deposits, 3807

weather stations, cooperative meteorological program, agreement, 8901

west coast, sailing directions, 10232

Mexico, Gulf of:

coast pilot, supplement, 5279

fishermen's atlas of monthly sea surface temperatures for area, 3918

geology and geophysics, selected bibliography, 13249

impact of petroleum development, 10048

Intracoastal Waterway, Gulf section, New Orleans, La. to Port Arthur, Tex., etc., navigation maps, 2180

Loran-A table, rate 3H1, 14731

oceanographic cruise, summary, 13251

shrimp atlas, 9224

surface water quality of—
eastern basins, 12801
western basins, 17074

Mexico-United States Commission for Border Development and Friendship, *see* United States-Mexico Commission for Border Development and Friendship.

Mexico-United States Interparliamentary Group:

8th conference, House delegation report, 1700

9th meeting, Senate delegation report, 15453

Meyer, Francis G., nomination, hearing, 15454

Meyer, George, response envelope, global description of 3 axis large-angle spacecraft attitude control systems, 1113

Meyer, Marvin C., Moore on hirudinea with emphasis on his type-specimens, 1207

Meyjes, F. E. P., epilepsy abstracts, 2801

MHD, *see* Magnetohydrodynamics.

Miami, Fla.:

area wage survey, 7182

harbor improvement, engineers report—
departmental edition, 599

document edition, 434

report of Miami Study Team on Civil Disturbances, 4859

Mica:

floatation of muscovite from Alabama graphitic-mica schist ore, 10064

fluorine micas, 7203

minerals yearbook chapter, 16080

separation from granite, 7215

trade and tariff information, summaries, 13500

Mice:

differential resistance at various time levels to lethality of rattlesnake venom (Crotalus atrox), 84

domestic, control, training guide, 14784

exposed to cobalt-60 gamma irradiation, dose rate effect on LD 50/30, 3704

psychotomimetic agents, comparison of effects, USSR study, 4443

Micelles:

micellar formation by naturally occurring lipids and properties of reconstituted lipid membranes, studies, 796

size, effect of solubilized methanol on non-polar solvent, 2357

Michalski, Bernadette:

mineral industry of Czechoslovakia, 16082

mineral industry of East Germany, 950, 13015

Michelson, Albert, heritage of Albert Michelson (remarks), 7717

Michleson, Ronald W., mineral industry of Iowa, 2145

Michigan:

Agricultural Stabilization and Conservation Service, annual report, 23, 11828

census of business, 1967, retail trade, area statistics, 13741

climatological data, 2662

electric rate book, 11071

Federal outlays, report of Federal Government's impact by State and county, 9554, 9605

landings—
fish, 10663

fishery products, 3117

mineral industry, minerals yearbook chapter, 2152

minimum wage campaign, role of volunteer organization in legislative process, 5007

plane coordinate intersection tables, 15152

pollution of Lake Michigan and its tributary basin, conference proceedings, 14241

precipitation data, hourly, 2962

upper hardwood veneer timber volume, 11173

uranium reconnaissance, preliminary, 13709

Michigan—Continued

- water pollution, pollution of Lake Erie and its tributaries etc., conference proceedings, 5656, 9836
- water resources data, 754, 9913-14
- Michigan Islands National Wildlife Refuge, designate as wilderness area—
hearing, 479
report, 9430
- Michigan, Lake:
and tributaries, water pollution problems, actions for clean water, 8265
- bottom trawl explorations in Green Bay, 7811
- pollution, Lake Michigan and its tributary basin, Illinois, Indiana, Michigan, and Wisconsin, conference proceedings, 14241
- pollution of interstate waters, Ill.-Ind., conference proceedings, 11146
- small craft, gale, and storm warning facilities chart, 11782
- southern, 1962-65, bottom trawl explorations, 9223

Microanalysis, see Chemical analysis.

Microbes, see Micro-organisms.

Microbiology:

- electronics, TAMIS, research technic utilizing proved immunochemical and electronic methods, 80
- enhancement of viral quantitation by media supplements and buffers, 11904
- examination of space hardware, NASA standard procedures, 1045
- micro lagoon technique for culture and observation of isolated mammalian cells, 1122
- microbial inhibitions in cutting oils employing radiation, cost analysis, 7691
- microbiologic evaluation of frozen foil pack meal components, 16575
- microbiologic studies of activated sludge process for recycling of human wastes, 3696
- microbiological oxidation of petroleum hydrocarbons, chemism and physicochemical properties of processes of, USSR study, 12876
- microbiological specimens, collection, handling and shipment, 8801
- pathogenic properties of *Staphylococcus aureus* as influenced by culture conditions, 9010
- process for imprinting micro lagoon fields in plastic surfaces for use in cell and tissue culture, 11470
- succession and soil formation, influence of sitka alder on landslide of alpine origin at Mount Rainier, 12707

Microchemical Analysis Section, summary of activities, 16233

Microcontrol and diagnosis of malfunctions in digital computers, 15978

Microdosimeters, see Dosimeters.

Microelectronic circuits, see Circuits.

Microelectronics, see Electronics.

Microfauna, see Fauna.

Microfilms, National Archives publications, pamphlet accompanying, 1161-70, 2278-80, 6031-35, 7315-18, 8663, 10167-170, 11511-513, 13151-55, 14655-661, 16214-221

Microforms:

- growth industry, 5199
- masters, national register, 4613

Micromechanics, application to joints and cutouts, 9059

Micromineralogy, see Minerals.

Micro-organisms:

- living pathogens, regulating shipment, 52
- microbial cell walls, biophysical studies—
electrophoresis, apparatus and exploratory experiments, 10252
- preparation of isolated cells walls, 1257
- rapid identification, by continuous particle electrophoresis, 102

Micro-organisms—Continued

- wood chip piles, new method for appraising decay capabilities, 15762
- Microphones, microphones and microphone elements, Federal item identification guide, 15509
- Micropulsatons, geomagnetic, determining dimensions of subsolar magnetosphere according to data from terrestrial observations of, USSR study, 2096
- Microscopes:
microscope system using automated reflectance scanning to study coal components, application to analysis of pyrite distribution, 10057
- resolution and image intensity of field-ion microscope, 7291
- Microscopy:
even-even nuclei properties, phenomenological and microscopic analysis, 5160
- holographic, for determination of failure mechanisms in monolithic circuits, 13051
- microscopic behavior of one-dimensional plasma, computer experiments, 1067
- see also Electron microscopy.
- Microspheres, see Spheres.
- Microstructure:
superconductivity effect in columbium-hafnium system, 10059
- wood, changes, through progressive stages of decay, 683
- Microwave communications systems, microwave and laser systems for communication and tracking, parametric analysis, summary, 8657
- Microwave equipment, avalanche diodes and their application, USSR, 15924
- Microwaves:
attenuation of microwave radiation for paths through atmosphere, 13279
- backward diodes in indium arsenide, fabrication and characteristics, 16164
- frequency management engineering principles, VHF/UHF/link facility handbook, 12590
- hemodynamic changes in individuals working under microwave irradiation, USSR study, 12932
- interferometer measurements, and Langmuir probe, correlation using free-stream electron concentration in arc-heated wind tunnel, 17245
- microwave amplifier arrays, energy control, 1567
- microwave dehydration on components of apples, effects, 9
- microwave photodiodes, sensitivity as function of bias and geometry, 14754
- microwave systems using terminal invariant parameters, description and evaluation, 17262
- modulated, dual optical wavelength geodetic distance-measuring instrument, development, 12572
- radiation regulations, standards, and guides, bibliography, 8803
- radiation transfer in atmosphere, transactions of Main Geophysical Observatory, Im. A. I. Voyeykov, 13150
- radiometric techniques for re-entry plasma measurements, laboratory study, 13087
- spectral tables, polyatomic molecules with internal rotation, 1173, 13158
- submillimeter waves in space, problems and programs on use of, 1040
- thin film iris, 14114
- Micuta, Jurate E., United States tariffs on selected items of commercial fishing gear, 5301
- Midair collisions in U.S. civil aviation, 13206
- Mid-Atlantic States Air Pollution Control Commission, create, hearings, 8089
- Mid-Continent Freight Lines, Inc., motor carrier accident, 8585

- Middle Atlantic States, *see* Atlantic States.
 Middle East, *see* East (Middle East).
 Middle Miocene period, *see* Miocene period.
 Middleton, John T.:
 addresses—
 Dec. 2, 1968, 4869
 Mar. 1, 1969, 10323
 Apr. 15, 1969, 10322
 June 11, 1969, 13363
 Midland, Tex., area wage survey, 11339
 Midway Atoll, electrical resistivity measurements, 14353
 Midway Islands:
 geology of Midway area, (series), 14353, 15807
 petrology of basalt cores, 15807
 Midwest (U.S.):
 ESSA and Operation Foresight, performance before and during heavy floods in Mar.-Apr. 1969, report, 12564
 fresh fruit and vegetable unloads, in midwestern cities, by commodities, States, etc., 6809
 national parks, general information, 6080
 region east of Great Plains, key to native perennial grasses, 1407
 Midwest Emery Freight Systems, Inc., motor carrier accident, 13038
 Mie scattering, *see* Scattering.
 Migrant labor:
 elementary and secondary education act title 1, ESEA migrant coordinators meeting, report, 8174
 health services—
 grants, authorization, hearings, 16820
 1969 directory of projects assisted by Public Health Service grants, 10300
 migrant and seasonal farmworkers program in Phoenix, Ariz., effectiveness and administration, GAO report, 14309
 problem in U.S., report, 5422
 Migrants:
 education, directory of consultants, 12425
 population trends, hearings, 15309
 Migration:
 assistance, appropriations, 1970, hearings, 15299
 in United States, analysis of residence histories, 1346
 international, of talent and skills, hearings, 487
 statistics, United States National Committee on Vital and Health Statistics, report, 6210
 see also Immigration and emigration.
 Migratory bird-hunting stamps, duck stamp data, information for stamp collectors and conservationists, 16442
 Migratory birds, *see* Birds.
 Migratory workers, *see* Migrant labor.
 Mikesell, A. H., mechanical improvement of 26-inch refractor, 10214
 Miklius, Walter, economic performance of motor carriers operating under agricultural exemption in interstate trucking, 3649
 Mild steel, *see* Steel.
 Milder, Nelson L., analysis of electron analog simulation of ion containment in magnetic fields, 8653
 Milera, Juan A., relief, 4016
 Miles, B. M., critically evaluated transition probabilities for Ba I and II, 4769
 Milgram, Grace:
 city expands, study of conversion of land from rural to urban use, Philadelphia, 1997
 U.S. land prices, directions and dynamics, 7405
 Militants:
 black militants and police, shoot-out in Cleveland, 13326
 civil and criminal disturbances, campus riots and disorders, Oct. 1967-May 1969, staff study, 14037
 El militar que desea comprar una casa, 5747
 Military Academy, West Point, USMA
 Library bulletins, 14519-520
 Military aid:
 agreement with—
 Belgium, 14929
 Japan, 10422, 14917
 Luxembourg, 16479
 Norway, 4975
 collective defense treaties, compilation, 9344
 foreign assistance act of 1968—
 analysis, 399
 hearings, 3990
 Ramseyer rule print, 398
 foreign assistance act of 1969—
 background material, fiscal year 1969, compilation, 397
 hearings, 10780, 12218, 13928, 15316, 15452
 report, 16805
 foreign assistance appropriations, 1970, hearings, 15299
 military assistance facts, 14098
 military assistance program address directory, MILSTRIP, 553-554, 1793, 4140-41, 5511-14, 8141-42, 9528-29, 12372-373, 14113-114, 15531, 16933-934
 Rio and Anzus pacts, review of U.S. military commitments abroad, report of subcommittee, 1697
 what should be the United States commitment to foreign countries? national debate for high schools, 1969-70, selected excerpts, etc., 9379
 world military expenditures, and related data calendar year 1966 and 1962-67 summary trends, 3734
 Military aircraft, *see* Aircraft.
 Military Airlift Command:
 airlift service management report, 13625
 MAC flyer (periodical), 3093
 Military Appeals Court, *see* Court of Military Appeals.
 Military art and science:
 Army transportation movements management, 13656
 counter guerrilla operations, Army field manual, 11935
 division support command and separate brigade support battalion, 10544
 larger units, theater Army-corps, field manual, 3756
 logistics—
 integrated support planning guide for DoD systems and equipment, 538
 maintenance management, Army field manual, 11936
 management, Army field manual, 9035
 military operations of Civil War, official records of Union and Confederate Armies, guide-index, main eastern theater, comprehensive index of recognized military operations, 17260
 pathfinder operations, Army field manual, 137
 riverine operations, doctrine, Marine manual, change, 8567
 soldier's BCT handbook, 10545
 Soviet translations, 3447
 special military operations, air traffic control service, 5087, 9014, 13642
 strategy and science, toward a national security policy for 1970's hearings, 7956
 print as House document, report, 15287, 16857
 tactical information processing for displays, implications of Behavioral Science Research Laboratory research, 13668
 U.S. strategic power, status, investigation, subcommittee report, 1733
 United States Army in World War II global logistics and strategy, 4618
 Military assistance, *see* Military aid.

Military communications :
 communication system technical standards,
 keyboard arrangements, military stand-
 ard, 6844
 defense communications system engineering-
 installation standards manual, 5474,
 15491
 Military construction, *see* Installations
 (military).
 Military courts, *see* Courts martial and
 courts of inquiry.
 Military deserters, 4069
 Military-economic problems in political econ-
 omy course, USSR, 4437
 Military education :
 Air Force Academy applicants, desired
 standards of quality, 9003
 Army correspondence courses, announce-
 ment, 1578, 5113
 Army training centers, staffing guide,
 11937
 soldier's BCT handbook, 10545
 State Department advisers to military
 training institutions, analysis and as-
 sessment, 10904
 training, first aid, Air Force pamphlet,
 5080
see also Training.
 Military equipment, *see* Military supplies.
 Military establishments, *see* Armed Forces.
 Military facilities, agreement with, Spain,
 14910
 Military fields, United States, instrument
 approach procedure charts, dates of latest
 editions, 3119
 Military handbook, 9521
 Military history :
 American military history, 13005
 armor-cavalry units of Army and Army
 Reserve, Army lineage series, 11375
 bibliography, 14519
 Marine Corps—
 historical reference bibliographies, 5924
 historical reference pamphlet, 4615,
 16044-45
 World War II operation, victory and
 occupation, 16042
 USAF historical studies series, 13636-637
see also Military policy.
 Military History, Office of Chief of, Army,
 publications, list, 16070
 Military hospitals :
 Army residency program, 6462
 construction projects, policies, procedures
 and practices for developing and review-
 ing proposed units, Defense Dept., GAO
 survey, 1951
 Military housing, *see* Housing.
 Military implications of treaty on non-pro-
 liferation of nuclear weapons, hearings,
 5426
 Military Index :
 Defense Department, specifications and
 standards, 2971, 14096-97
 Military information :
 amphibious reconnaissance, Fleet Marine
 Force manual, 16041
 long-range reconnaissance ranger com-
 pany, field manual, 5111
 military affairs, Eastern Europe, transla-
 tions, 3508
 secret, is it really? (poster), 5515
 Military installations, *see* Installations
 (military).
 Military intelligence :
 army intelligence, exciting and unusual
 career, 7652
 intelligence and the ABM, hearing, 10898
 long-range reconnaissance ranger com-
 pany, field manual, 5111
 objectives, activities, etc., 16587
 Military justice, *see* Military law.
 Military law :
 military judges guide, Army pamphlet,
 10546

Military law—Continued
 military justice handbook—
 guide for summary court-martial trial
 procedure, change, 9038
 trial guide for special court-martial,
 10547
 review, Army Dept., pamphlet, 3120
 Military medicine, *see* Medicine.
 Military missions :
 agreement with—
 Iran, 6288
 Liberia, 13482
 Military occupation, United States Marines
 in occupation of Japan, 16045
 Military occupational specialties, transfer-
 ring military experience to civilian jobs,
 study of selected Air Force veterans, 2103
 Military operations, *see* Military art and
 science.
 Military pay, *see* Pay, allowances, etc.
 Military personnel, *see* Air Force—Air Force
 Reserve — Armed Forces — Army — Army
 Department.
 Military police, crime prevention activities,
 AMC pamphlet, 1565
 Military policy :
 America's role in the world (address),
 11706
 U.S. military policies and programs in
 Latin America, hearings, 12299
 Military posture, hearings, 15302
 Military publications, index of AMC publi-
 cations and blank forms, 3735, 5106, 7644,
 10539, 16581
 Military records, service records, volunteer
 soldiers who served from 1784-1811, in-
 dex, microcopy, pamphlet accompanying,
 1163
 Military research :
 Army research and development, news-
 magazine, 2605
 Defense Department, research, develop-
 ment, tests, and evaluation, appropri-
 ations, 1970, authorize, report, 12258,
 16772
 long range forecasting methodology, Air
 Force research program, 78
 research and development, appropriations,
 1970, authorization—
 hearings, 10887
 report, 15295
 research in progress, lists, 11946
see also Research.
 Military review (periodical), 3121
 Military roads, *see* Roads and highways.
 Military Sea Transportation Service, sea-
 lift magazine, 3416
 Military security, America's role in the
 world (address), 11706
 Military service :
 Armed Forces Day activities, 1969 report,
 6822
 deserters, problem, hearings, 4069
 deserters, treatment—
 committee print, 6776
 report, 6763
 leadership CPSU conflicts denied, USSR
 study, 5856
 military selective act of 1967, amend, mes-
 sage from the President, 9256
 opportunities open to volunteers, guide,
 5495
 standards of medical fitness, Army regula-
 tions, 5107
 your military obligation, details, etc.,
 13683
see also Armed Forces—Conscription.
 Military standards, *see* Standards and
 standardization.
 Military supplies :
 Air Force procurement instruction, revi-
 sions, 2574
 airdrop of supplies and equipment, Army
 technical manual—
 military floating and fixed aluminum
 bridges, 6443

Military supplies—Continued

- airdrop of supplies and equipment—Con.
reference data for airdrop loads, 3781
- rigging containers, 179
- rigging ¼ ton utility trucks, 1582
- Armed services procurement regulations,
525, 2602
- Army supply management and stock fund
activities in Korea, improvement needed
GAO report, 12745
- cataloging system, standardization, etc.,
semiannual report, 391A, 5368, 13919
- commanders' supply and maintenance
handbook, 1581
- contract pricing, Armed services procure-
ment regulation manual, 5476
- contractors guide, 9033
- Defense Department—
specifications and standards, index,
2971, 14096-97
- standardization documents, classifica-
tion listing, 2881, 14094
- defense disposal manual, changes, 1768,
5484, 10944, 15494
- defense industrial plant equipment center
operations, DSA manual, change, 8117
- defense procurement—
circular, 2755
- competition, minimize concentration,
hearings, 6794
- defense supply procurement regulation,
2757, 12353
- digest of supply and maintenance policies,
11945
- DoD Contract Management Conference,
Contract Administration Services—
management science in procurement
cycle, 1772
- property and equipment, 1780
- DSA responsibilities, 5494
- electromagnetic interference characteris-
tics requirements for equipment, mili-
tary standard, 4133, 6839, 8134
- Federal manual for supply cataloging—
format, content, and preparation of
Federal supply catalog publications,
526, 5478
- FSC classes assigned for integrated ma-
teriel management, special procedures,
9511
- letters of Tench Cox, Commissioner of
Revenue, on procurement of military,
naval and Indian supplies, 1794-96,
pamphlet to accompany microcopy,
14657
- materiel management manual, Defense
Supply Agency manual, 12350
- military items, definitions of levels, item
exchangeability, models, and related
terms, military standards, 14099
- MILSTRIP—
military standard requisitioning and
issue procedures, 553-554, 1793, 4140-
42, 5510-14, 8141-42, 9528-30,
12372-373, 15531, 16933-934
- requisition fund codes, 4143
- Navy, supply facilities, design manual,
change, 13208
- need for improvement in receipt and stor-
age of military supplies and equipment,
Dept. of Defense, GAO report, 12746
- operating forms, cataloging manual,
change, 9512, 10943
- overseas U.S. agencies, effectiveness in
meeting supply requirements, GAO re-
port, 14314
- parts and equipment, procedures for pack-
aging and packing, military standard,
8135
- preservation and packaging, instructor's
guide, Army Dept. pamphlet, 10550
- preservation, packaging, packing, DSA
manual, 14083, 15493

Military supplies—Continued

- procurement—
aircraft rocket launchers, report, 3991
- economics—
hearings, 5316, 7834
- subcommittee report, 9246
- legal service, Army pamphlet, 16597
- proposal evaluation and source selection,
Army Materiel Command pamphlet,
16582
- provisioning and other preprocurement
screening manual Defense Supply Agency
manual, 16910
- purchasing and sales directory, 4926
- reliability program for systems and equip-
ment development and production, mili-
tary standard, 9524
- sampling procedures and tables for inspec-
tion by variables for percent defective,
military standard, change, 5500
- savings attainable through improved appli-
cation of economic order principle in
procurement, Defense Dept., GAO re-
port, 11224
- standardization policies, procedures, and
instructions, manual, 3456
- storage manual, Air Force manual, 15009
- supply and service reference data, Army
field manual, 15042
- supply operations manual, distribution sys-
tem procedures, 5483, 8115, 9518
- system safety program for systems and
associated subsystems and equipment re-
quirements for military standard, 15527
- utilization manual, 6830
- visual inspection guide, all-rubber gloves
except surgical, military standard, 12363
- wheeled vehicles and equipment, inspec-
tion, care and preservation during stor-
age, 8138
- work breakdown structures for defense ma-
teriel items, military standard, 4135
- world military expenditures, and related
data calendar year 1966 and 1962-67
summary trends, 3734
- see also* Handling equipment.
- Military Traffic Management and Terminal
Service:
port handling billing rates, fees for
shippers, pamphlet, 16589
- transportation proceedings (periodical),
3526
- Military training, *see* Military education.
- Milk:
bulk, dispensing operations, sanitary
standards for equipment and methods
for handling of milk and milk products,
military standard, 8133
- cows on farms, June 1969, 14934
- evaporated, condensed, and dry, 2807
- evaporated, good formula for babies, 5233-
35
- Federal marketing orders—
class 1 dairy base plan, hearing, 9326
- summary of major provisions, 8108
- Federal orders—
market source by State and county,
505
- market statistics—
annual summary, 8992
- monthly summary, 2852
- marketing class 1 base plan, amend-
ments—
hearings, 388
- report, 374
- fluid—
government's role in pricing, 1801
- milk and cream report, 2896
- packaged, sales in Federal milk order
markets, by size and type of contain-
ers and distribution method, 6811
- food for your baby's first year, 5237
- laboratories approved by Federal and State
agencies, 8810
- milkhouse, farm building plan, 3656

- Milk—Continued**
 processing lines, adapting flow-diversion value and homogenizer to permit automated cleaning-in-place, 3622
 production, distribution, and income, 8907
 production, monthly report, 3122, 11734, 14934
 research and development program, establish, hearing, 16898
 special milk program for children, extend—hearing 6701
 reports, 6691, 7922
 supply, maintain purity (remarks), 11634
 Milkhouses, *see* Milk.
- Milking** Shorthorn cattle, *see* Cattle.
- Mill** Canyon, gold, silver, and other metals, anomalous concentrations in area, 743
- Mill Creek:**
 flood plain information, 4204
 floods in Fort Smith, Ark., how to avoid damage, 4207
- Mill River:**
 flood plain information, 9679
 floods in Hamden, Conn., how to avoid damage, 9704
- Millan, Silvio M.**, *see* Mejia, Silvio M.
- Millard, High T.**, establishment of gold-quartz standard QCS-1, 1960
- Millard County, Utah**, gold-bearing jasperoid in Drum Mountains, 9893
- Miller, C. D.**, unaccelerated geocentric velocities and influx rates of sporadic photographic meteors, 10148
- Miller, Charles D.**, fluid resin technic of processing denture bases, 1538
- Miller, C. O.**, paper, Oct. 28, 1969, 17297
- Miller, Charles F., Jr.**, graphic method for determining absolute attitude of sounding rocket vehicles, 10118
- Miller, Charles G., III**, real-helium hyper-sonic flow parameters for pressures to 3600 atmospheres and temperatures to 15 000° K, 1092
- Miller, D. E.**, flow and retention of water in layered soils, 8949
- Miller, E. M.**, floods in Virginia, magnitude and frequency, 9895
- Miller, G. A.:**
 reconnaissance of ground-water resources of Ellwood-Gaviota area, Santa Barbara County, Calif., 8356
 water resources of Marine Corps Supply Center area, Barstow, Calif., 9930
- Miller, G. Kimbal, Jr.**, fixed-base visual simulation of pilot-controlled descents of an advanced Apollo spacecraft with all-flexible parawing, 7255
- Miller, Henry**, factors related to response in health examination survey, United States, 13379
- Miller, Irvin M.**, evaluation of coated molybdenum and columbium alloys in high-temperature supersonic airstreams, 1100
- Miller, J. E.**, precipitation regime of Long Island, N.Y., 15806
- Miller, John S.**, factors affecting detonation velocities of desensitized nitroglycerin in simulated underground fractures, 13023
- Miller, Ralph L.**, Pennsylvanian formations of southwest Virginia, 17070
- Miller, Raymond E.**, availability of ground water in Chad Basin of Bornu and Dikwa Emigrates northern Nigeria, 12757
- Miller, Richard E.**, can auger planting improve survival of Douglas-fir seedlings? 12703
- Miller, Richard L.**, solar-illuminated algal photosynthetic exchanger, 1540
- Miller, Robert E.:**
 development of officer selection and classification tests, 3677
 interpretation and utilization of scores on Air Force officer qualifying test, 11891
 predicting 1st year achievement of Air Force Academy cadets, 1968 class, 3676
- Miller, Robert P.**, experimental bending strength of an Atlas LV-3C booster beyond compressive skin wrinkling, 8635
- Miller, Thomas P.**, metalliferous deposits near Granite Mountain eastern Seward Peninsula, Alaska, 5712
- Miller, Warner**, self-synchronizing bi-orthogonal coded PCM telemetry system, 1146
- Miller act**, *see* Government contracts.
- Miller County, Ark.**, community profile, 15581
- Millers, I.**, biological evaluation of spruce budworm on Superior National Forest, 7006
- Millers River and Valley**, basin, selected wells, test holes, borings, public water-supply systems, and chemical analyses of water, records, 8350
- Millimeter waves**, *see* Microwaves.
- Milling machines:**
 cane milling of nicotine from green *Nicotiana rustica*, 6359
 feasibility of producing dispersion strengthened chromium by ball-milling in hydrogen halides, 1127
- Millon, Louis N.:**
 staff study, 1980, metropolitan area airport capacity analysis, location-Atlanta, Ga., 13649
 suggested action program for relief of airfield congestion at selected airports, 9016
- Millman, Linda I.**, poor people at work, annotated bibliography on semi-professionals in education, health, and welfare services, 10363
- Millonzi, Francesca A.**, relief, 9267, 12101, 13960
- Mills, Wilbur D.**, tax reform subjects, press release announcing tentative decisions, 9376
- Mills, Willard B.**, floods of Apr. 28, 1966 in northern part of Dallas, Tex., 15818
- Mills, William J.**, Peru's fishmeal industry, 6996
- Mills**, *see* Flour mills.
- Millwork**, Federal item identification guides for supply cataloging, supplements, 2845
- Millwrights**, employment outlook, 4520
- Milroy, William C.**, fungal flora of submarine environment during prolonged submergence, 921
- MILSCAP** (Military standard contract administration procedures), *see* Government contracts.
- MILSTAMP** (Military standard transportation and movement procedures), *see* Transportation.
- MILSTRIP** (Military standard requisitioning and issue procedures), *see* Military supplies.
- Milton, John B.**, standard time and frequency, its generation, control, and dissemination from National Bureau of Standards Time and Frequency Division, 14672
- Milton, W.Va.:**
 flood plain information, 12468
 floods, how to avoid damage, 12503
- Milton Mine**, Organ Pipe Cactus National Monument, historical and architectural data, 16275
- Milwaukee, Wis.:**
 aircraft accident, 16283
 area wage survey, 12911
 elementary program in compensatory education—
 elementary reading centers, 6869
 Metropolitan Intrastate Air Quality Control Region, report for consultation, 13369
 speech and language development program, 6876
- Minnard, James P.:**
 Cretaceous-Tertiary boundary in New Jersey, Delaware, and eastern Maryland, 5704

Minard, James P.—Continued
 geology of Sandy Hook quadrangle in
 Monmouth County, N.J., 5794

Minas Gerais, Brazil:
 geology and mineral resources (series),
 745, 5713
 geology and ore deposits of Antonio dos
 Santos, Gongo Soco, and Conceicao do
 Rio Acima quadrangles, 5713

Minchew, B. Harvey, informed consent, 5659

Mind, *see* Intellect.

Mine accidents:
 coal mines injuries, monthly report, 2665
 Federal coal mine health and safe act of
 1968, recommendations, 365

Mine drainage:
 acid mine drainage, water pollution con-
 trol, demonstration projects—
 hearings, 6803, 8090, 9490, 12319
 report, 12281

Mine explosions, *see* Coal mines and mining.

Mine pillars, model rock, increasing and
 constraint on compressive strength, effect,
 16098

Mine props, hydraulic-powered roof supports,
 specifications, 16079

Mine safety, *see* Safety of life.

Mine ventilation:
 air leakage and air leakage calculations,
 USSR study, 12944
 radiation-ventilation relationships in 6
 underground uranium mines, 11377

Miner, Norman H., natural filtering of sus-
 pended soil by stream at low flow, 8291

Mineral industry, *see* Minerals.

Mineral King, planned recreation develop-
 ment, 8282

Mineral lands:
 conveyance of mineral rights of U.S. to
 Pike Co., Ga., 16768
 federally owned locatable minerals, prob-
 lems relating to development, hearing,
 15462
 leasing act, amend, report, 9434
 oil land leasing act with amendments and
 other laws, 1685
 patenting mining claim on Federal lands,
 basic procedure, 7191
 placer examination, principles and prac-
 tice, 17161

Mineral oils, *see* Oils.

Mineralogy, *see* Minerals.

Minerals:
 and primary products, Federal item iden-
 tification guides for supply cataloging,
 supplements, 2848
 census, 1967, materials consumption items,
 list, 5227
 deposits, near Monticello Box, northern
 Sierra Cucillo, Socorro County, N. Mex.,
 geochemical evidence, 740
 deposits, San Cristóbal district, Villa Mar-
 tin Province, Potosí, Bolivia, 7042
 exploration assistance, 8342
 exploration, mercury in soil, gas and air,
 potential tool, 4357
 flow water returned from irrigated land,
 prediction of mineral quality, research
 proposal, 11650

Industries—
 area reports, annual, 2600
 census 1967—
 EC series, 13754-755
 geographic area coding manual, cross
 reference manual, 221
 preliminary reports, publication order
 form, 9119
 injury experience and worktime in min-
 eral industries—
 minerals yearbook chapter, 941, 17175
 safety in mineral industries, annual,
 17176
 mine products, improving returns
 through use of operations research
 techniques, 5956
 review, minerals yearbook chapter, 983

Minerals—Continued
 Industries—continued
 sample reduction, multistage probability
 model, 973
 States, injury experience and worktime,
 5935

Industry
 minerals yearbook chapter—
 Africa, 4625
 Alabama, 945
 Alaska, 2132
 Algeria, 17180
 Angola, Mozambique, and Portuguese
 Guinea, 5936
 Argentina, 2133
 Arkansas, 946
 Australia, 2134
 Bolivia, 947, 14537
 Brazil, 2135
 Bulgaria, 13013
 Burma, 14538
 Canada, 2136
 Caribbean Islands, 5939
 Central American areas, 16081
 Chile, 2137
 China, mainland, 16085
 Colombia, 2138, 14539
 Colorado, 2139
 Connecticut, 948
 Cyprus, 13014
 Czechoslovakia, 16082
 Delaware, 949, 17181
 East Germany, 950, 13015
 European countries, 5943
 Far Eastern and South Asian areas,
 2161, 17188
 Finland, 17182
 Florida, 951
 France, 2141
 Gabon, 5937
 Georgia, 952
 Germany, Federal Republic, 2140
 Ghana, 16083
 Guyana, 5938
 Hawaii, 953
 Hungary, 14540
 Idaho, 2142
 Illinois, 2143
 Indiana, 2144
 Indonesia, 17183
 Iowa, 2145
 Iraq, 2146
 Israel, 16084
 Italy, 2147
 Japan, 4623
 Kansas, 954
 Kentucky, 2148
 Kenya, Tanzania and Uganda, 2149
 Kuwait, Kuwait-Saudi Arabia Neutral
 Zone, and Saudi Arabia, 17184
 Liberia, 5940
 Libya, 13016
 Louisiana, 2150
 Maine, 955, 17185
 Maryland, 956
 Massachusetts, 957
 Mexico, 2151, 16086
 Michigan, 2152
 Minnesota, 958
 Mississippi, 959
 Missouri, 2153
 Montana, 2154
 Nebraska, 2155
 Netherlands, 17186
 Nevada, 2156
 New Hampshire, 5941, 17187
 New Jersey, 960
 New Mexico, 2157
 New York State, 2158
 New Zealand, 961
 Nigeria, 5942
 North Carolina, 962
 North Dakota, 2159
 North Korea, 13017
 Ohio, 2160
 Oklahoma, 4624

Minerals—Continued

Industry—continued

minerals yearbook chapter—continued

- Oregon, 963
- Pakistan, 14541
- Pennsylvania, 4626
- Philippines, 13018
- Portugal, 964
- Puerto Rico, Panama Canal Zone, Virgin Islands, Pacific Island Possessions, and Trust Territory of Pacific Islands, 965
- Rhode Island, 966, 17189
- Rumania, 13019
- Senegal, 2162
- Sierra Leone, 14542
- South Africa, 5945
- South Carolina, 967, 17100
- South Dakota, 5946
- South Korea, 16087
- South Pacific Islands, 5944
- South-West Africa, 968
- Southern Rhodesia, 4627
- Spain, 2163
- Sweden, 5947
- Taiwan, 14543
- Tennessee, 4628
- Texas, 4629
- Thailand, 13020
- Tunisia, 16088
- Turkey, 7210
- U.S.S.R., 5948
- United Arab Republic, 5949
- United Kingdom, 5950
- Utah, 2164
- Venezuela, 2165
- Vermont, 969
- Virginia, 5951
- Washington State, 2166
- West Virginia, 4630
- Wisconsin, 2167
- Wyoming, 2168
- Zambia, 4631, 16089
- magnetic separation of minerals of low susceptibility and small particle size, 14555
- micromineralogy of galena ores, Burgin mine, East Tintic district, Utah, 5722
- mineral industry health program technical progress report, 17179
- mineral trade notes, monthly inventory, 3124
- minerals in world economy, minerals yearbook chapter, 4632
- mining and minerals policy act of 1969—hearings, 12304
- report, 15369
- national mining and minerals policy, establish—
- hearings, 12304
- report, 15369
- nonmetallic minerals and products, trade and tariff information, summaries, 1462, 13500
- offshore resources, challenge and opportunity, report of President's Panel on Oil Spills, 17366
- Polson Ridge volcanic center, Grand and Jackson Counties, Colo., 5706
- pollution, problem in Colorado River Basin, general background, 14243
- production, statistical summary, minerals yearbook chapter, 985
- prospecting, application of biogeochemistry, survey, 1042
- publications, price list, 2408
- resource valuation for public policy, errata, 17173
- resources—
- Arizona, report, 10905
- Blue Range primitive area, Greenlee County, Ariz., and Catron County, N. Mex., 14328
- code of Federal regulations, 5629
- Colorado, report, 5387
- Minas Gerais, Brazil (series), 745, 5713

Minerals—Continued

resources—continued

- Mission Mountains primitive area, Missoula and Lake Counties, Mont., 4350
- Oregon, report, 10906
- San Juan primitive area, Colo., 14329
- subsea, problems related to their development, 12760
- Uncompahgre primitive area, Colo., 733
- underwater exploitation, USSR study, 7136
- Utah, report, 7993
- print as Senate document, report, 6761
- valuation for public policy, 14530
- safety officer, examination announcement, amendment, 12037
- specialist, examination announcement, discontinuance notice, 5258
- stratigraphic and mineralogic relations and ceramic properties of clay deposits of Eocene age, 7047
- Thailand, northeastern, investigations, 12784
- USSR industrial development, translations, 3559
- yearbook, 1967—
- area reports—
- domestic—
- departmental edition, 5952
- document edition, 5320
- international—
- departmental edition, 8582
- document edition, 7837
- metals, minerals, and fuels—
- departmental edition, 4633
- document edition, 3945
- see also names of minerals.
- Miners, see Coal mines and mining.
- Mines and mining:—
- Alaska-Northwest Canada, economic activities, comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
- dust control in United States, 5934
- eight-piece concrete sets for small mine openings, progress report, 11389
- hydraulic-powered roof supports, specifications, 16079
- industry employees, coverage and benefits under State workmen's compensation laws, encourage improvement, hearings, 15311
- mine waste, experimental leaching of gold, 7220
- minimum age for employment in underground mines, International Labor Organization convention, 6574
- mining and minerals policy act of 1969—
- hearings, 12304
- report, 15369
- mining or in situ disintegration of hard material, classification definitions, 11584
- national mining and minerals policy, establish—
- hearings, 12304
- report, 15369
- near-surface horizontal stresses including effects of rock anisotropy, 4645
- Pennsylvania anthracite refuse, survey of solid waste from mining and preparation, 10049
- publications, price list, 2408
- State mining laws, comparison, 12213
- surface, effects on fish and wildlife in Appalachia, report, 1427
- surface mining, effect on fish and wildlife resources of United States, 13462
- underground uranium mines, radiation-ventilation relationships, 11377
- Mines Basin, Nova Scotia, red-bed facies, multispectral photographic studies, 1531
- Mines Bureau:—
- appropriations, 1970—
- hearings, 7946
- reports, 12171, 15398, 16793
- area report, annual, 2600

Mines Bureau—Continued

- bulletins, 929, 4619, 7203, 11376
- coal-fired gas turbine research project, test of combustor and ash separators for open-cycle plant, 14558
- coal program, review, 11379
- Director, nomination of John F. O'Leary, hearing, 480
- information circulars, 938-940, 4620-22, 5931-34, 7206-8, 10048-52, 11377-381, 13011, 14529-531, 16078-79, 17172-74
- portable recording methanometer, description, 11385
- press releases, 3304
- publications and articles, lists, 944, 3188, 17178
- report of investigations, 973-982, 2170-79, 4636-53, 5954-63, 7212-21, 10053-67, 11382-393, 13023-28, 14549-559, 16097-16106
- Minetti, G. Joseph, address, Oct. 6-8, 1968, 256
- Minidoka National Wildlife Refuge, birds, lists, 1417, 13456
- Minigardens for vegetables, 5044
- Minimum wage, *see* Wages.
- Mining, *see* Mines and mining.
- Mining claims, *see* Mineral lands.
- Mining engineering:
 - five-piece concrete sets for small mine openings, progress report, 7219
 - increasing end constraint on compressive strength of model rock pillars, effect, 16098
 - use of fly ash for remote filling of underground cavities and passageways, 982
- Mining engineers, employment outlook, 4505
- Mining machinery:
 - and equipment, current industrial reports, 9139
 - equipment, Federal Item identification guides for supply cataloging, supplements, 2842
 - shipments, 1961-68, patterns of industrial growth, 13730
- Ministers of religion, *see* Clergy.
- Minitrack, preprocessing of minitrack data, 11439
- Minkin, Constance, guide to National Museum of Natural History & Museum of Man, 11548
- Minneapolis, Minn.:
 - accounts and deposits in all commercial banks in district, summary, 9766
 - Air Quality Control Region, report for consultation, 10334
 - area wage survey, 10026
- Minnesota:
 - Agricultural Stabilization and Conservation Service, annual report, 11829
 - agricultural stabilization conservation program, annual Congressional District summary, 8950
 - census of business, 1967—
 - retail trade, area statistics, 13742
 - wholesale trade, area statistics, 16654
 - climatological data, 2662
 - electric rate book, 12621
 - Federal outlays, report of Federal Government's impact by State and county, 9555, 9606
 - Federal waterfowl production areas, guide, 1432
 - mineral industry, minerals yearbook chapter, 958
 - National Park Service, Minnesota Governor's book, 14706
 - natural resources, 11277
 - Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 17064
 - north central, water storage and related physical characteristics of 4 mineral soils, 17023

Minnesota—Continued

- pollution of interstate and intrastate waters of upper Mississippi River and its tributaries, conference, proceedings, 1897
- postal map, 17323
- precipitation data, hourly, 2962
- uranium reconnaissance, preliminary, 13709
- water resources data, 755, 8373
- Minnesota River, precipitation, probable maximum estimates, 6349
- Minore, Don, effects of artificial flooding on seedling survival and growth of six northwestern tree species, 8294
- Minorities:
 - business enterprises (remarks), 10660
 - education and economic advancement of minority groups in U.S. (remarks), 14227
 - education of the culturally different, multicultural approach, handbook for educators, 16956
 - help wanted, or is it? job inequalities, 1844
 - job patterns in private industry, 4226
 - journey into business (address), 15160
 - minority business enterprise directory, 13804
 - we hold these truths, bibliography, 13515
- Minority Business Enterprise Office:
 - directory of private programs, 13804
 - opportunities, increase (address), 15160
- Minors, *see* Child labor—Children.
- Mint, Philadelphia:
 - dedication (remarks), 14951
 - Director, nomination of Nicholas G. Theodore, hearings, 9450
- Mint Bureau:
 - annual report, 13032
 - letters sent by Director of Mint at Philadelphia, 1795-1817, pamphlet to accompany microcopy, 14656
 - medals of United States Mint, issued for public sale, 13033
 - Mint story, history, etc., 989
- Mint story, 989
- Minutillo, Rose, relief, 13902
- Miocene period:
 - marine miocene formations of California and Oregon, isotopic composition of diagenetic carbonates, 11246
 - Middle Miocene foraminifera and stratigraphic relations in Adelaida quadrangle, San Luis Obispo County, Calif., 734
- MIP guidelines, 6816
- Miquel, Roberto de la Caridad, relief, 6620, 8003, 12081
- Mirandolle, J. F., epilepsy abstracts, 16254
- Mirrors:
 - mirror caliper, new optical dendrometer, 11180
 - single- and double-mirror systems, geometrical image aberrations in, mathematical determination, 1052
- MIRV (multiple independently targeted re-entry vehicles, *see* Missiles.
- Misalignment, *see* Alignment.
- Miscellaneous bills, *see* Bills (congressional).
- Miscellaneous papers, *see* names of departments, etc., issuing papers.
- Miscellaneous publications, *see* names of departments, etc., issuing publications.
- Misconduct, line of duty and determinations in Army, 141
- Missien, Edmond, Mozambique's agricultural economy in brief, 12414
- Missile Sites Labor Commission, 1961-67 operation, 4260
- Missiles:
 - aircraft avoidance of missiles, USSR study, 8511
 - antiballistic missile system—
 - SAFEGUARD—
 - address, 9942

Missiles—Continued
 antiballistic missile system—continued
 SAFEGUARD—continued
 construction appropriations, 1970, hearings, 15301
 hearings, 9333
 program rotation of key military personnel assigned to agencies of Army Department, GAO report, 15790
 Sentinel, construction status and selection of sites, briefing, 3983
 statement, 7486
 strategic and foreign policy implications of ABM defense systems, hearings, 8068, 10900, 14031
 antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV) strategic and foreign policy implications of ABM defense systems, hearings, 14034
 ballistic, early warning station at Fylingdales Moor, Yorkshire, agreement with Great Britain, 7501
 design of electric systems, technical manual, 10213
 diplomatic and strategic impact of MIRV, multiple warhead missiles, hearings, 12217
 guided, preferred items list—
 electronic and electromechanical, military standard, 5508
 mechanical and materials, military standard, 5509
 guides, Federal item identification guides for supply cataloging, supplements, 2850
 hydrocarbon fuels, identification methods, military standard, 5497
 industry, 1957-68 R & D, 14716
 intelligence and the ABM, hearing, 10898
 manufacturing occupations, employment outlook, 4568
 military procurement appropriations, 1970, authorization—
 hearings, 10887, 15302
 reports, 12258, 15295, 16772
 missile procurement funds used to finance research and development efforts, Air Force Dept., GAO report, 9880
 surface-to-air series engineering design handbook, 3736
 Mission Mountains, primitive area, mineral resources, 4350
 Mission report, MR series, 16119
 Missions, see Military missions.
 Mississippi:
 Agricultural Stabilization and Conservation Service, annual reports, 11830-831
 census of business, 1967, retail trade, area statistics, 9103
 central, sweetgum seed production on soils, 1929
 climatological data, 2662
 concentrated employment program, hope for tomorrow, 2102
 electric rate book, 16997
 Federal outlays, report of Federal Government's impact by State and county, 9556, 15614
 forest statistics for counties, 11194
 landings, fish and shellfish, 1065, 3125
 mineral industry, minerals yearbook chapter, 959
 northern, clearcutting and planting best for regenerating pine, study, 8299
 plant materials annual progress report, 16437
 pollution of Interstate waters, conference proceedings, 11147
 post study, wood preservatives, comparison, 1969 progress, report, 11171
 postal map, 17324
 precipitation data, hourly, 2962
 south, southern pine hybrids, performance, 8314
 uranium reconnaissance, preliminary, 13712

Mississippi—Continued
 western, Mississippi delta, impact of economic opportunity loans on rural residents, 1800
 Mississippi County, Ark.:
 community profile, 15582
 drainage district No. 17, engineer's report—
 departmental edition, 4212
 document edition, 3947
 Mississippi River and Valley:
 Delta area, cotton farms, commercial, costs and returns, 15620
 flood plain information, 9680
 Grand detour phase, 17372
 Gulf outlet, New Orleans, La. to Gulf of Mexico, navigation maps, 2180
 lead-zinc explorations, lead isotope guide, 14335
 light list and other marine aids, 5283
 lower basin, surface water quality, 17074
 Mississippi delta, rural residents, impact of economic opportunity loans, 1800
 Mississippi River and tributaries, stages and discharges—
 Memphis district, 12551
 New Orleans district, 12550
 St. Louis district, 11003
 Vicksburg district, 8181
 Missouri-Mississippi River summary and forecasts, 3126
 surface-water records to Sept. 30, 1967, index, 7048
 Tennessee-Missouri Bridge under construction, designate as Robert A. Everett Memorial Bridge, report, 5402
 upper, and its tributaries, pollution of interstate and intrastate waters, conference, proceedings, 1897
 upper basin, quality of surface waters, 14376
 Vicksburg, Miss., flood plain information, 12466
 Mississippian period, Girty's invertebrate fossils from Fayetteville shale of Arkansas and Oklahoma, revision, 15803
 Missoula County, Mont., mineral resources of Mission Mountains primitive area, 4350
 Missouri:
 Agricultural Stabilization and Conservation Service, activity summary, 8956, 11832
 census of business, 1967, retail trade, area statistics, 15089
 climate, 14162
 climatological data, 2662
 electric rate book, 11072
 Federal outlays, report of Federal Government's impact by State and county, 9557, 9607
 mineral industry, minerals yearbook chapter, 2153
 National Park Service, Missouri Governor's book, 14707
 pine plantation fuel evaluation, released by aerial spraying, 4310
 precipitation data, hourly, 2962
 uranium reconnaissance, preliminary, 13709
 water availability seminar, criteria for type 1 comprehensive river basin study, 10453
 water resources—
 data, 8374-75
 investigations, 9929
 Missouri Basin Inter-Agency Committee:
 annual programming report, 1969-71, fiscal years, 13034
 annual progress report, 990
 directory, 1970 fiscal year, 16111
 minutes—
 154th meeting, 991
 155th meeting, 5964
 156th meeting, 11394
 157th meeting, 16112

- Missouri Flat Creek, flood plain information, 1099S
- Missouri-Kansas-Texas RR. Co., accident, reports, 11089, 11091
- Missouri Pacific RR. Co., accident, reports, 9790, 11089
- Missouri River and Valley:
hydro-power plant transients prototype measurements, North and South Dakota, 4215, 9716
- land purchase plan modification for Oahe Dam and Reservoir, N. Dak., report, engineers report—
departmental edition, 12348
document edition, 12246
- Missouri-Mississippi River summary and forecasts, 3126
- Missouri River basin investigations project, reports, 9949-51, 12820-822
- Missouri River basin, progress reports, 7082, 15850
- streamflow characteristics in western Dakota tributaries, 16113
- surface water supply of basin—
above Williston, N. Dak., 9934
below Nebraska City, Nebr., 14375
from Sioux City, Iowa to Nebraska City, Nebr., 12800
from Williston, N. Dak., to Sioux City, Iowa, 9935
- upper basin, quality of surface waters, 14376
- Missouri River Basin project:
Ainsworth unit, Nebr., Sandhills division, general information, 14824
- Corn Creek, Front Range, and Arnel units, water resource development proposals, Interior Dept. to investigate feasibility, reports, 9416, 12168, 15261
- Kortes unit, operation, modification, reports, 442, 13995
- Merritt Dam, technical record of design and construction, 4911
- Narrows unit, South Platte division, construct, operate, etc., reauthorize, hearings, 3992
- O'Neill unit, construction, report, 3949
- Yellowtail unit, general information, 14845
- Mistletoe, dwarf, on red fir, infection and control in understory stands, 12715
- MIT, *see* Massachusetts Institute of Technology.
- Mitchell, George W.:
addresses, lectures, etc.—
Oct. 25, 1968, 653
Mar. 3, 1969, 5641
Mar. 11, 1969, 8245
Mar. 13, 1969, 6976
Sept. 10, 1969, 15728
Oct. 2, 1969, 15726
Oct. 27, 1969, 16998
- Mitchell, John N., nomination, hearing, 4090
- Mitchell County, Tex., soil survey report, 11675
- Mites:
cactus-feeding insects and mites, 6070
- spider mites on cotton, control, 3645
see also Chiggers.
- Mitlin, Lucille L., boll weevil, *anthrenomus grandis* Boh, abstracts of research publications, 3651
- Mitosis, *see* Karyotensis.
- Mixer, R. Y., microbial inhibition in cutting oils employing radiation, cost analysis, 7691
- Miyachi, David, application of radiation-pasteurization processes to Pacific crab and flounder, 5173
- Miniko, Aranka, relief, 6628
- Mobile, Ala.:
flood plain information, 9681
- Halls Mill Creek floods, how to avoid damage, 12531
- Mobile Bay, area, chlorinated pesticides in oysters and estuarine environment, study, 11637
- Mobile homes, *see* Trailers.
- Mobile home courts, *see* Trailer parks.
- Mobile trade fairs, hearings, 1705
- Mobility:
handicapped students, 1367
- labor—
between geographic regions in United States, 7459
selected references, 8536
persons and families, Mar. 1969, selected characteristics, 13763
United States, population, 12013
- Mobilization, *see* National defense.
- Mobilization of non-poor volunteers in community action, 12401
- Mobilometers, test, thickened hydrocarbon flame fuels, consistency determination, military standard, 4137
- Mobley, Thomas C., building trades, union wages and hours, 11337
- Mockingbird Gap quadrangle, N. Mex., geology, 749
- Model cities, *see* Cities and towns.
- Model elementary teacher education program, final report, 5347
- Model in-service training program for correctional personnel, 871
- Model Reporting Area for Blindness Statistics:
conference, proceedings, 13172
statistical report, 11544
- Modeling:
forecasting and modeling of future, USSR study, 7147
- gravitational-model selection, effect on accuracy of lunar orbit determination from short data arcs, 7278
- in biology and medicine, USSR study, 12928
- mathematical, of urban hydrologic systems, considerations involved in evaluating, 9932
- of complex systems, USSR, 5857
- systems analysis models, applications of, survey, 2211
- Modeling mechanism of generation of respiratory rate, USSR study, 15962
- Models (layout):
subsynoptic advection operational model, 16972
- Models (structural):
analytical model of flash stage, development, 797
- identification by use of near resonance testing, 6016
- model design of soil-projectile system, application of similitude, 1027
- supersonic decelerator models at Mach numbers of 2.30 and 4.63 static longitudinal aerodynamic characteristics, 11455
- tests of arch dams, Glen Canyon and Morrow Point Dams, 11652
- Modernizing military pay, 555, 10958, 12374-375
- Modified 59 Fe ferrokinetic procedure, 13632
- Modules:
Apollo command module with offset center-of-gravity positions at Mach numbers to 29, trim attitude, lift and drag, 11480
- modular extravehicular activity work platform, study, 10091
- prototype lunar module landing gear, full-scale dynamic landing-impact investigation, 7251
- Modulus of elasticity, *see* Elasticity.
- Moede Herbert H., store test of EUDA cheese in 4 supermarkets in Washington, D.C., suburbs, 7597
- Moench, Robert H., Quimby and Greenvale Cove formations in western Maine, 7044
- Moenkopi formation, stratigraphy, Navajo and Hopi Indian Reservations, 5715

Mohair, production, price and value, 8910
 Mohammedanism, Islam and the East, 11198
 Moher, William J., relief, 6633
 Moisture:
 acorn content critical for cherrybark oak germination, 4309
 changes in slash, effect of asphalt and wax emulsions, 17051
 content of glulam timbers in Pacific Northwest, 8283
 effects and control as influenced by thermal insulation from wood for buildings, 684
 influence on yellow birch regeneration, 11184
 penetration and battery life of subdermally implanted devices, 13633
 saturating of roofing felts, variables involved, 13156
 stratospheric temperature and moisture profiles, inference from observations of infrared horizon, 16135
 timelags of woody materials, some factors affecting it, 11185
 wood moisture content, effects of—
 restrained swelling, 676
 transverse compressive stress on loss, 677
 Moisture meters, cable and clamp modifications for Model 104 moisture probes, 1914
 Mojave River and Valley:
 floods—
 Bartstow, Calif., vicinity, 12522
 Victorville vicinity—
 flood plain information, 12467
 San Bernardino County, Calif., flood hazard, 12449
 Molasses:
 market news—
 annual summary, 6806
 weekly, 3127
 Molders, I & C, Navy training course, 2344
 Molds (botany):
 guidelines for mold control in high-moisture corn, 7587
 Molds (forms):
 cold-mold arc melting and casting, 929
 Molecular beams, analysis of molecular beam system utilizing known pressure source, 13102
 Molecular biology, *see* Biology.
 Molecular dynamics and structure of solids, 10175
 Molecular structure, molecular orientation and mechanical anisotropy in polyethylene, polypropylene, and poly(ethylene terephthalate) films, 14628
 Molecules:
 collisions of 2 hydrogen molecules, calculated interaction energy and dipole moment, 17234
 diffusion, behavior of xenon-133 gas after injection underground, 16623
 ion-molecule collisions with long lived capture complexes, computer plotting description, 14645
 intermolecular forces and liquid state, 5762
 model for studying vibration-dissociation coupling in fluid flows, 17254
 obtaining population inversion in supersonic stream of binary gas in laval nozzle, USSR study, 7128
 polyatomic, microwave spectral tables, 1173, 13158
 theoretical molecular line absorption of CO in late spectral type atmospheres, 2222
 vibration spectra from field emission energy distributions, 16174
 see also Molecular beams.
 Moline, Ill., area wage survey, 4603
 Mollusks, invertebrates in streams, effects of lamprey larvicides on, 3926
 Molnar, Andrew R., Office of Education support of computer activities, 14145

Molten salts, *see* Salts.

Molybdenum:

alloys—
 statistical analysis of high temperature creep-rate data, 16175
 W-20 percent Mo alloy fabricated by Powder metallurgical methods, homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of, 4762
 carbide strengthened molybdenum alloys, dynamic strain aging, 13130
 fabrication of cermets from mixed powders and coated particles, 7294
 minerals yearbook, chapter, 14545
 molybdenum and columbium alloys, coated evaluation in high-temperature supersonic air-streams, 1100
 molybdenum and titanium additions, interactions with interstitial impurities in vanadium, 10063
 molybdenum-hafnium-carbon alloys, mechanical properties and heat treatment, exploratory study, 5997
 occurrence and distribution, in surface water of Colorado, 15814
 report, monthly, 3128
 solubility in liquid potassium, 17248
 thermal stability and friction of disulfides, diselenides, and ditellurides of molybdenum and tungsten in vacuum 10^{-6} to 10^{-8} torr, 10110
 Molybdenum disulfide, sputtered films, some low resistivity metals lubricated with, friction and contact resistance during sliding in vacuum, 13124
 Moments:
 bending distribution in MARINER cargo ship model in regular and irregular waves, 2446
 due to air jets exhausting parallel to large flat plates in near vacuum, 8630
 flapwise bending moments on helicopter rotor blades, procedures for estimating, tables, 17204
 forces and bending moments generated during the NRL dynamic tear test, analysis, 13289
 midship bending stresses of dry cargo ships, full-scale data analysis and interpretation, 11659
 Momentum, *see* Angular momentum—Motion.
 Momentum transfer, experimental investigation of momentum transfer associated with impact into thin aluminum targets, 17239
 Monaco, alien amateur radio operators, authorization to operate, agreement, 7504
 Le Monde (periodical): index, 2970
 Mondre, Erwin, relationship between complex- and envelope-covariance for Rician fading communication channels, 2224
 Monego, Constantin, mechanics of rupture of cotton-dacron blended yarns, 3757
 Monomethylhydrazine, nomogram correlating dose of MMH with blood levels, 16572
 Monetary policy, *see* Money.
 Monetary problems, *see* Money.
 Money:
 bank lending practices and changes in monetary environment (remarks), 16998
 banking and monetary statistics, 14225
 code of Federal regulations, 6962
 controlling monetary aggregates (remarks), 8239
 counterfeiting, Secret Service report to the Public, 8844
 credit unions and tight money, 12608
 currency and coin, outstanding and in circulation, monthly statement, 3460
 demand deposits, currency, etc., 3129
 domestic and international monetary situations (remarks), 1477
 Euro-dollar flows and efficiency of U.S. monetary policy (paper), 8240
 facts about U.S. money, 4993

Money—Continued

- financial innovation and monetary management in United States (paper), 12636
- foreign currencies—
 - in custody of United States, report, 8941
- Peace Corps to use excess to pay transportation expenses of returning volunteers, GAO report, 8333
- purchased with dollars, 5010
- foreign exchange, Treasury reporting rates of exchange, 3613
- foreign exchange rates—
 - monthly, 2903
 - weekly, 2904
- guidelines for monetary policy (address), 5285
- maintaining mortgage volume in tight money period (address), 11060
- monetary policy—
 - channels, further report on Federal Reserve-MIT econometric model, staff economic study, 11137
 - corporate financing, and quest for economic stability (remarks), 8243
 - guidelines and Federal Reserve structure, compendium, 6706
- monetary restraint, borrowing, and capital spending in 1966 by small local governments and State colleges, 4277
- monetary restraints and flows of funds to savings institutions (remarks), 6976
- monetary system, consolidated condition statement, 2611
- movement of money, everybody's problem, 15726
- much ado about international monetary reform (remarks), 5645
- new frontier for monetarists (remarks), 15727
- new look at monetary policy, instruments (remarks), 15728
- next steps in international monetary reform—
 - hearing, 345
 - report, 346
- open market rates and bond prices, monthly, 3220
- public assistance money payments to persons aged 65 or over, 1948-68 and May 1968, concurrent receipt, 7331
- recent international financial and monetary developments, hearing, 13923
- special foreign currency science information program, 1969 list of translations in process, 10632
- stabilization policies and national priorities, objectives in conflict (address), 8244
- supply and time deposits, 3129
- tasks of monetary policy (remarks), 8252
- United States monetary policy in 1969, assessment (paper), 15734
- use of U.S.-owned excess foreign currencies, 7846
- withdrawal of cash from Treasury for advances under Federal programs, regulations, 8918
- your money and clothing labels, 8983
- see also Gold (money)—Inflation (finance)—Paper money—Silver (money).
- Mongolia, translations, 3511
- Mongolian People's Republic, see Outer Mongolia.
- Monitoring:
 - aid to families with dependent children in New York City, special review conducted by Health, Education, and Welfare Dept. and New York State Dept. of Social Services, GAO report 16827
 - air-pollution-monitoring instrumentation, survey, 8608
 - performance as function of muscular response effort, 6446

Monitoring—Continued

- special review of aid to families with dependent children in New York City, conducted by Health, Education and Welfare, Dept. and New York State Dept. of Social Services, GAO Report, 17056
- taut wire buoy array for environmental monitoring in AUTEC, 13231
- tobacco, sensitive monitor for photochemical air pollution, 13354
- weld quality monitor, development, 14609
- see also Radiation monitoring.
- Monitors, see Monitoring.
- Monitors of U.S. Navy, 1861-1937, bibliography, 16306
- Monkeys:
 - learned behavior, effect of head versus trunk fission-spectrum radiation, 1544
- Macaca mulatta—
 - behavioral and physiologic responses to doses of radiation, 1542
 - primates, beta-aminoisobutyric acid excretion in, 10528
- rhesus—
 - early effects of 150-Mev proton irradiation, 3638
 - radioprotection with 2-(1 decylamino) ethanethiosulfuric acid, 3709
- squirrel monkey (*Saimiri sciurens*), cardiac output by thermodilution, repeated or continual measurements, 14496
- Monmouth County, N.J., Sandy Hook quadrangle, geology, 15794
- Monnin, Carl F., stability of two-fluid wheel flows with imposed uniform axial magnetic field, 13138
- Monoamine oxidase, see Oxidases.
- Monoculars, recognition of letters and Landolt Cs in left and right visual hemifields, 10047
- Monographs, see names of departments, etc., issuing monographs—also subjects.
- Monolayers, see Monomolecular films.
- Monolithic circuits, see Circuits.
- Monomers, radiation-induced polymerization and copolymerization of unusual monomers, 13717
- Monomolecular films:
 - adsorbed, effect on evaporation of volatile organic liquids, 16317
 - aspects of aerodynamics of formation of float coal dust clouds, 10053
 - polydimethylsiloxanes on organic liquids, 7384
 - surface, influence on production of condensation nuclei from bubbled sea water, 2351
- Monomoy National Wildlife Refuge, designate certain lands as wilderness area, hearing, 479
- Monomoy Wilderness Area, designate, report, 479, 9428
- Monopolies:
 - antitrust laws—
 - administration, investigation authorization, report, 4058
 - antitrust and monopoly activities, 1968, report, 12272
 - failing newspapers, exempt certain combinations and arrangements necessary for survival, hearings, 486, 1704, 5456
 - automobile industry, role of giant corporations in American and world economies, hearings, 16899
 - automotive repair industry, hearings, 9474
 - consumer credit industry, hearings, 482-483
 - economic concentration, outside United States—
 - hearings, 485
 - supplementary material, hearings, 8079
 - see also Competition.

- Monopulse radar, monopulse arrays with discrete elements, analysis and synthesis, 4216
- Monroe, Frederick F., oolitic aragonite and quartz sand, laboratory comparison, under wave action, 10994
- Monroe, John A., copper, quarterly industry report, 2706
- Monroe, Watson H., Aguada Limestone of northwestern Puerto Rico, 4354
- Monroe County, Ark., community profile, 15583
- Monrovia, Liberia, Liberian National Medical Center, general information, 13352
- Montagna, Dominic, refining zinc-base die-cast scrap using low-cost fluxes, 16106
- Montague Island, earthquake, Mar. 27, 1964, erosion and deposition on raised beach features, 5718
- Montana:
- Agricultural Stabilization and Conservation Service, annual report, 24, 8959
 - annual peak discharges from small drainage areas, 9882
 - census of business, 1967—
 - retail trade, area statistics, 9104
 - selected services, area statistics, 15093
 - wholesale trade, area statistics, 15103
 - climatological data, 2662
 - county business patterns, 16660
 - electric rate book, 645
 - Federal careers in Northwest, 12042-43
 - Federal outlays, report of Federal Government's impact by State and county, 9558, 9608
 - mineral industry, minerals yearbook chapter, 2154
 - National Park Service, Montana Governor's book, 14708
 - precipitation data, hourly, 2962
 - real property, comprising Veterans' Administration Center, Fort Harrison, cede concurrent jurisdiction with United States—
 - law, 15194
 - reports, 5354, 10879
 - spruce budworm, tolerance to malathion, 4321
 - Tepee Creek quadrangle, geology, 12782
 - water resources data, 8376-77, 14366
 - water supply outlook and snow surveys, 1408, 3586
- Monte Carlo method, simulation for origin-destination surveys, 11647
- Montego Bay, marine biofouling studies in Montego and Oyster Bays, Jamaica, oceanographic cruise summary, 13253
- Monterey County, Calif., geology, Tierra Redonda Mountain and Bradley quadrangles, 732
- Monterey Harbor, wave and surge conditions after proposed expansion, hydraulic model investigation, 608
- Montero, Amalia P., relief, 7870
- Montero, Rene E., relief, 4041
- Montgomery County, Ark., community profile, 15584
- Montgomery County, Ill., soil survey report, 14877
- Month-end storage in major reservoirs in Pacific Northwest, 3470
- Monthly:
- NOTE.—For all publications which begin with the word "Monthly", see subject, or name of department, etc., issuing publication.
- Months, see names of special months.
- Monticello, N. Mex., mineral deposits near Monticello Box, northern Sierra Cuchillo, Socorro County, geochemical evidence, 710
- Montoya, John, collective bargaining calendar for Pacific region, 901
- Montpelier, Ohio, motor carrier accident report, 7222
- Mood, Eric W., development, objective, and adequacy of current housing code standards, 11599
- Moock, Paul V., heart rots of balsam fir, 11163
- Moon:
- Apollo S, man around the moon, 4692
 - atlas of reverse side, 10158
 - conference on electromagnetic exploration, report, 14596
 - earth-moon orbits, comparison with class of rotating Kepler orbits, 1120
 - entry aerodynamics at lunar return conditions obtained from flight of Apollo 4 (AS-501), 17219
 - exploring the moon and planets, 10093
 - geologic maps, 4360
 - gravitational-model selection, effect on accuracy of lunar orbit determination from short data arcs, 7278
 - Hansen's lunar theory, method of application to Xth satellite of Jupiter, 2267
 - Hansen's method, application to Xth satellite of Jupiter, 2267
 - in this decade . . . mission to the moon, 11423
 - landing, commemorative air mail stamp ceremonies (remarks), 14772
 - lunar equatorial radius, determination, using image-motion compensation sensor data from Lunar Orbiter I, 11459
 - lunar gravity simulator, 4667-68
 - lunar mission, Lunar Orbiter I, terrain assessment and selenodesy, etc., 11429
 - lunar surface size and shape from Lunar Orbiter mission I photographs, analytical study, 11465
 - lunar theory and artificial satellite theory, unified treatment, 16193
 - lunar wall mosaics—
 - LEC-1, lunar earthside chart, 7631
 - LEM-1B, lunar earthside hemisphere, 5086
 - man's capability for self-locomotion on the moon—
 - detailed report, 16128
 - summary report, 16129
 - observations made with 6-inch transit circle 1956-62, correction to FK4, GC and N30, 14724
 - physics of moon and planets, 13142
 - radio bridge, Earth-Moon-Earth, 4759
 - spacecraft orbiting the planets or the moon—external thermal-radiation heat loads and temperatures, computer program for calculating, 6023
 - steps to the moon, history, flight description, etc., 15808
 - 10-cent moon landing commemorative air mail postage stamp (poster), 14769
 - see also subjects beginning Lunar.
- Mooney, A. R., oceanographic data report, San Clemente Island area, July-Aug. 1967, 13225
- Moore, Billy J., helium, 14528
- Moore, Charlotte E.:
- bibliography of analyses of optical atomic spectra, 6048, 11520, 16225
- Moore, Clarence A., flaxseed production and use, past trends and future prospects, 15622
- Moore, Cordell, J., remarks, Dec. 2, 1968, 2002
- Moore, Donald L., kitchen planning guide, 15709
- Moore, Elbert C., relief, 13891
- Moore, Franklin K., on minimizing wake of droplets, 8603
- Moore, Geoffrey H., nomination, hearing, 5461
- Moore, George W., gold distribution on sea floor off Klamath Mountains, Calif., 1961
- Moore, James G., October 1963 eruption of Kilauea Volcano, Hawaii, 15804

- Moore, Jerry A., Jr., nomination, report, 5437, 6737
- Moore, John B., growth of oxide films in high-temperature aqueous environment, growth characteristics of iron oxide films generated in dilute lithium hydroxide solution at 300° C, 1261
- Moore, John P., on Hirudinea with emphasis on his type-specimens, 1207
- Moore, Johnnie A. :
equal opportunity in Federal employment, newsletter, 2802
Federal news clip sheet, 2853
- Moore, Norman D., letters sent by Dept. of Justice to executive officers and Members of Congress, pamphlet accompanying microcopy, 2277
- Moore, Raymond S., consortiums in American higher education, 576
- Moore, Robert H., experimental verification of scale factors for parawing opening characteristics with dimensional ratios, 6017
- Moore, Royce D., prediction of thermodynamic effects of developed cavitation based on liquid-hydrogen and freon-114 data in scaled venturis, 1116
- Moore, Samuel L., geology and ore deposits of Antonio dos Santos, Gongo Soco, and Conceicao do Rio Acima quadrangles, Minas Gerais, Brazil, 5713
- Moore, Thomas M., radiation safety recommendations for X-ray diffraction and spectrographic equipment, 6193
- Moore's Creek National Military Park, master plan, 13191
- Moosehorn National Wildlife Refuge :
designate as wilderness, report, 9430
Edmunds and Birch Islands, designate as wilderness area, hearing, 479
reptiles, amphibians and fishes, list, 6253
- Moot, Robert C., nomination, hearing, 5428
- Moral obligation to communicate (speech), 4929
- Morale, postal labor relations and employee morale, hearings, 12239
- Morality, *see* Ethics.
- Moran, Robert D., nomination, hearing, 8085
- Morbidity :
morbidity and mortality weekly report, 3148
statistical treatment of population morbidity, USSR study, 12884
temporary disability among workers and employees in different branches of industry, assessment and comparison of data, USSR study, 11325
see also Diseases of animals.
- More than shelter, 1314
- Moreland, Joe A., study of deep aquifers underlying coastal Orange County, Calif., 15809
- Morgan, Brian E., rainfall rate sensors, 11023
- Morgan, Charles W., oceanography of Grand Banks region of Newfoundland, 13801
- Morgan, Q. Martin, Ireland's livestock and meat industry, 11154
- Morgan, Roy, marital status and living arrangements before admission to nursing and personal care homes, 8822
- Morgen, Richard J., lunar gravity simulator, 4668
- Morlarty, Thomas F., conformal mapping of interior of unit circle onto interior of class of smooth curves, 10090
- Moriches Bay, pollution, progress evaluation meeting, proceedings, 663
- Morning, John L. :
chromium, 16073
molybdenum, 14545
technologic trends in mineral industries (metals and nonmetals except fuels), 987
- Morocco :
agricultural commodities, agreement, 7526
capsule facts for Armed Forces, 123
- Morocco—Continued
economic trends and their implications for United States, 5794, 15881
foreign trade regulations, 3895
- MORP, *see* Medical and Occupational Radiation Program.
- Morphology :
comparative morphology of hematopoietic neoplasms, 16259
diagnostic stages of intestinal parasites of man, 16355
playa surface morphology, miscellaneous investigations, 1534
Spinacopia, new genus of Myodocopid Ostracod (Sarsellidae), 13421
- Morphometry, FORTAN II programs for univariate and bivariate analysis of morphometric data, 7353
- Morrell, Lester G. :
mineral industry of—
Australia, 2134
Canada, 2136
- Morris, Charles R., panoramic survey of basic airmen, 11905
- Morris, Odell A., aerodynamic characteristics of parashut-wing-body combination utilizing favorable lift interference at Mach numbers 3.00 to 4.63, 1081
- Morris, Richard E., creep-rupture data for welded N-155 tubes, 8645
- Morris, Robert E., oceanographic cruise summary, seismic survey of Wilmington Canyon, USNS Lynch (T-AGOR 7), 13258
- Morrison, D. Grant, guide for planning community junior facilities, 8170
- Morriss, E. Frances, supplement for 1968 to statistics on cotton and related data, 3672
- Morrow, Robert R., vacuum pumping doubles maple sap yield on flat land, 15758
- Morrow, William M., III, structural synthesis of stiffened cylinder, 2196
- Morrow Point Dam, structural model tests of arch dams, 11652
- Mort, Kenneth W., large-scale wind-tunnel investigation of M1-L lifting body with inflatable and rigid afterbody, 17226
- Mortality, *see* Death.
- Mortar, stains on, investigation of methods for removing, 1824
- Mortensen, Ernest, handbook of tropical and subtropical horticulture, 7123
- Mortgage insurance :
dealers and individuals subject to certain sections of title 1, National Housing Act, list, 5606
- FHA—
home—
area trends, 4256
general information, 14387
regulations, amendments, 1865, 11061, 15707, 16990
State trends, 4258
monthly report of operations, project mortgage programs, home mortgage programs, etc., 16989
programs, extend, reports, 15297, 15371, 16792
project, FHA regulations, 11062, 16991
technically suitable manufactured housing, 14205
interest rates, correct obsolete references in laws, law, 342
mortgagee's handbook, home programs, FHA manual, revisions, 1867, 14207
- Mortgage Interest Rates Commission :
extend time, law, 7823, 12123
report, 6762, 10858, 13035
- Mortgages :
amortization—
tables, home mortgages insured under national housing act, 635
tax information, 8428
availability of mortgage funds (remarks), 5640
banker, new opportunities (address), 781

Mortgages—Continued

- credit, make more available to homebuyers during periods of tight money, hearings, 15419
- farm—**
- lending experience of life insurance companies, Federal land banks, and Farmers Home Administration, 6863
 - mortgage debt, 6862
 - home, FHA trends, 2890
 - home mortgage debt, estimated, quarterly, 2805
 - housing credit, brand new ball game, the 70's (address), 15704
 - housing production, availability of financing (remarks), 17089
 - loan gross flows, 11266
 - maintaining mortgage volume in tight money period (address), 11060
 - markets, longer run view (remarks), 8241
 - maximum rate of interest on ship loans and mortgages, hearings, 1705
 - money, two new sources (address), 17078
 - mortgages' guide, assistance and interest reduction payments, 770, 5739
 - nonfarm real estate foreclosure report, 3204
 - real estate foreclosure report, 9777
 - residential mortgage credit, central banking and availability (remarks), 1866
 - savings and mortgage lending activity, selected balance sheet items, FSLIC insured savings and loan associations, 2928
 - veterans, home loans, authority to set interest rates, extend, reports, 15268, 15284
- see also* Loans.
- Mortimer, Richard W., MCDIT 21, computer code for one-dimensional elastic wave problems, 11404
- Morton, Herbert, monthly labor review, 3137
- Morton National Wildlife Refuge, general information, 11689
- MOS, *see* Military occupational specialties.
- MOS field-effect-transistor technology, 996
- Mosaics:**
- lunar wall mosaic—
 - LEC-1, lunar earthside chart, 7631
 - LEM-1B, lunar earthside hemisphere, 5086
- Moscow, Russian SFSR:
- cultural projects jeopardized, 2089
 - winty days in Prague and Moscow, study mission, report, 5446
- Moseley, William C., jr.:
- aerodynamic characteristics determined during development of Apollo launch escape vehicle configuration, 13075
 - aerodynamic loads on deployed canard surfaces and rocket nose section of Apollo launch escape vehicle, 13081
- Moses, Anna M. R., Grandma Moses 6-cent American folklore commemorative postage stamp (poster), 7396
- Moses, H. A., halfway or more?, 10283
- Moses Caulce, river mile index, 13310
- MOSFETS (Metal Oxide Semiconductor Field Effect Transistors), *see* Transistors.
- Mosher, Frederick C., planning-programming-budgeting, program budgeting in foreign affairs, some reflections, 473
- Mosher, Kenneth H., identification of Pacific salmon and steelhead trout by scale characteristics, 16712
- Mosio, Maria, relief, 9276, 13845, 13981
- Moskowitz, Harry, college graduate and national security, utilization of manpower by Armed services, 1766
- Mosquitoes:**
- arthropods of medical importance in Latin America, 7656
 - Bredin-Archbold-Smithsonian biological survey of Cominica, mosquitoes of Dominica (Diptera: Culicidae), 13428

Mosquitoes—Continued

- controlling in your home and on your premises, 3639
- Moss, Alan L., nursing homes and related health care facilities, 17419
- Moss, James N., study of performance of low-density phenolic-nylon ablators, 11472
- Mossbauer effect, study of magnetic ordering in copper-rich Cu-Ni-Fe alloys, errata, 1180
- Mossbauer spectrometry for analysis of iron compounds, 11959
- Mosser, Emmanuel L., estimation of serum proteins by quantitative densitometry after gel electrophoresis, 6421
- Motels, *see* Motor courts.
- Mothers, widowed, employment, facts, 16417
- Moths:**
- American, revision of family carposinidae (Lepidoptera: Carposinoidea), 6071
 - Diorctria amatella distinguishing attacks on southern pines, 7017
 - large aspen tortrix, Choristoneura conflictana (Wlkr.), in interior Alaska, 679
 - Malacosoma Hübner in North America (Lepidoptera: Lasiocampidae), revision of genus, systematics, biology, immatures and parasites, 2312
 - Neartic Walshidae, notes and new taxa (Lepidoptera: Gelechioidea), 13429
 - pine seedworm, field screening of insecticides for control, 7013
 - revision of Peorinae and Anerastiinae (auctorum) of America, north of Mexico, 1203
- see also* Clothes moths—European pine shoot moths—Gypsy moths—Tip moths.
- Motion:**
- artificial satellites in Earth's gravitational field, 13145
 - bats toward plane targets and nature of changes of echolocative signals in process of target selection and recognition, USSR study, 15902
 - differential thresholds in periphery, 16145
 - dynamics of vestibular system and their relation to motion perception, 7239
 - ground motion and containment, analysis of data, Project Handcar, 13706
 - impulsive motion on flat plate pulsed with uniform heat flux, 10151
 - lunar satellite, semi-analytic theory, 11440
 - momentum diffusion between 2 supersonic airstreams in presence of shock waves, preliminary investigation, 4712
 - motion-degraded images, evaluation, 13059
 - particles in helical fields, influence of electric field, 16608
 - Planet Pluto, theory, 2270, 4757
 - planetary effects of natural satellites, 16153
 - single bubbles under low gravitational conditions, 16196
 - spatial, of aircraft, dynamics, 8658
 - unsteady motion of sphere along circular path in viscous fluid, 9032
 - wave problems, scientists to investigate, USSR study, 15930
- see also* Equations of motions—Movement (psychology).
- Motion picture projectionists, employment outlook, 4525**
- Motion pictures:**
- Agriculture Department, bimonthly list, 2625
 - catalog of copyright entries, 519-520, 4118
 - civil defense—
 - a day in September, documentary motion picture on civil defense in Federal facilities, announcement, 7760
 - port preparedness, 12034 - classification definitions, 2384
 - conservation, 1969-70 listings of conservation films and related natural resource film subjects, 15849
 - film guide on reproduction and development, 14687

Motion pictures—Continued
 films on oceanography, 8744
 fishery, 7814
 Forest Service films available for educational purposes, list, 11165
 Library of Congress catalog, 3070
 medicine and allied sciences, film reference guide, supplement, 13179
 NASA film list, 11425
 National Bureau of Standards films, list, 1175
 screening of foreign films deplored, USSR study, 4451
 urban outlook, bibliography, 12816
 use of illustrations and motion-picture films and slides of paper money, postage and revenue stamps, and other obligations and securities of United States and foreign governments, 14851
 what's new on smoking in films, 6214
 Motivation (psychology):
 Air Force Academy applicants, desired standards of quality, 9003
 medical officer candidates for submarine service, 16068
 new incentives increase industrial output, USSR study, 5829
 Step Test of motivation to excel, 14518
 Motive forces in development of earth and planets, 11504
 Motive power, *see* Power.
 Motley, Dena, reimbursement incentives for hospital and medical care, objectives and alternatives, 4939
 Motoneurons, *see* Nerves.
 Motor buses, *see* Motorbuses.
 Motor carrier decisions, *see* Interstate Commerce Commission.
 Motor Carrier Safety Bureau, bulletin, on guard (periodical), 16116
 Motor carriers:
 accounts, uniform system, 15896
 class 1 and 2, cost of transporting freight—
 East-South territory, 12865
 general commodities by regions or territories, 12869
 Middle Atlantic region, 12866
 South-Central territory, 12867
 southern region, 12868
 filing of surety bonds, etc., under interstate commerce act, rules and regulations, 829
 freight commodity statistics, motor carriers of property operating in intercity service—common and contract, 1966, in United States, 10005
 freight handling, determining cost, 12872
 mail transportation laws, revision, 3996
 operating under agricultural exemption in interstate trucking, economic performance, 3649
 property—
 safety road checks, 4657
 selected safety road checks, 11397
 revenues, expenses, other income, etc., of class 1 carriers of passengers, quarterly, 3391-92
 transport statistics, 8492
see also Motor vehicle accidents.
 Motor courts:
 as you travel, ask yourself, how safe are motel pools, 8799
 District of Columbia—
 liability to guests, revise laws, report, 16803
 offense against motels, revise laws, report, 16801
 motel industry in Puerto Rico, data pertinent to review of minimum wage rates, 13523
 Motor cycles, *see* Motorcycles.
 Motor Freight Corp., motor carrier accident report, 11396

Motor fuel:
 aircraft fuel systems, conference on fire safety measures, report, 4238
 taxation—
 airway user act of 1968, proposed legislation, analysis, 1716
 highway user act of 1968, proposed legislation, analysis, 1717
 user charges, increase, hearings, 15337
 waterway user act of 1968, proposed legislation, analysis, 1718
see also Gasoline.
 Motor neurons, *see* Nerves.
 Motor psychology, *see* Movement (psychology).
 Motor-ships, United States and Canadian Great Lakes fleets, 11368
 Motor vehicle accidents:
 accidents involving fire, Jan.-June 1968, analysis of reports, 8584
 analysis of accident reports involving fire, 17194
 crash survivability, 16244
 data contribution to countermeasures, 16249
 fatal and injury accident rates, 1967, on Federal-aid and other highway systems, 6216
 1967 accidents of class 1 motor carriers of passengers, 5965
 1967 accidents of large motor carriers of property, 4654
 motor carrier accident investigation reports, 4655-56, 7222-23, 8585-86, 11395-396, 13036-38, 16114-115
 motor carriers, vehicle defects or mechanical failure, 1968 analysis, 14563
 relationships between accidents and geometric and traffic characteristics of interstate system, analysis and modeling, 16380
 speed-related accident counter-measures and their priorities, 16245
 Motor vehicle operators:
 drivers—
 behavior, 16246
 licenses, 11645
 traffic safety magazine of Air Force, 2774
 employment outlook, driving occupations, truck, bus, and taxi drivers, routemen, 4500
 examination announcements, 7771, 12039
 job grading standard, 3882
 read before driving, safety driving practices, booklet, 4774, 16251
see also Automobile drivers.
 Motor Vehicle Safety Advisory Council, National, *see* National Motor Vehicle Safety Advisory Council.
 Motor vehicles:
 air pollution control research, hearing, 10795
 automated vehicle registration files, application to postal O-D survey, 10343
 automotive repair industry, hearings, 9474
 combat tracked vehicles, military procurement appropriations, 1970, authorization—
 hearings, 10887
 report, 15295
 equipment, manufacturing, employment outlook, 4583
 Federal item identification guides for supply cataloging, supplement, 2842
 highway safety act of 1966, administration, annual report, 12137-138
 license plate traffic survey, 11646
 management, handbook, 8203
 manufacturing, employment outlook, 4583
 maximum safe speed, NHTSB staff report, 13166
 motor vehicle safety standards, planning for quality (remarks), 16241

Motor vehicles—Continued

- motor vehicles and equipment industry, 1957-66, indexes of output per man-hour, 5900
- motor vehicles and highway safety, research and test facilities, requirements, 11757-758
- national traffic and motor vehicle safety act of 1966—
 - administration, annual report, 12137-138, 13506
 - amend definition of motor vehicle equipment—
 - hearings, 15427
 - reports, 12160, 15253
 - amend to authorize appropriations, 1970-71
 - hearings, 15427
 - reports, 12160, 15253
 - amend to require notification to purchasers of defective tires—
 - hearings, 15427
 - reports, 12160, 15253
- safety act of 1966, administration, annual report, 6327
- safety defect recall campaigns reported to National Highway Safety Bureau, 3150
- safety for motor vehicles in use, 11759
- safety literature, announcement of recent acquisitions, 2959
- compilation, 14681
- subject category index, 16240
- safety standards—
 - compliance enforcement, 16248
 - with amendments and interpretations, 10188
- tracked combat vehicles, military procurement appropriations, 1970, authorization—
 - hearings, 15302
 - reports, 12258, 16772
- traffic and motor vehicle safety act of 1966—
 - amend to—
 - renew authorization, hearings, 9361
 - require notification to purchasers of defective tires, hearings, 9361
 - implementation, hearing, 5433
 - transportation, role of Transportation Department (remarks), 2518
 - weight and width limitations on interstate highway system, raise limits, hearings, 15326
 - world production and registration, 6488-89
- see also* Motor carriers—Vehicles.
- Motorboats, *see* Boating.
- Motorbus drivers, employment outlook, bus drivers, 4500
- Motorbuses, District of Columbia, mass transit system, public assistance or ownership, hearing, 9456
- Motorcycles, Federal item identification guides for supply cataloging, supplements, 2842
- Motorists:
 - improvement of transportation graphics and communications, proceedings of seminar, 13387
 - rest area use study manual, 14819
- Motors:
 - and generators, current industrial reports, 3852
 - expensive chamber type, classification definitions, 2363
 - FW-4d solid-propellant rocket motor on Delta 50 (AIMP-E), flight performance, 7249
 - permanent magnet stepping, dynamic analysis, 7271
 - propulsion motor plume, estimating diameter of plasma, 14746
 - rotary kinetic fluid motors or pumps, classification definitions, 13312
 - see also* Electric motors—Pitch control motors.

Motortruck drivers:

- and helpers, union wages and hours, 12965
- employment outlook, truck drivers, 4500
- Motortrucks, lift trucks, fork, platform, and pallet, 15508
- Federal item identification guide, 14089, 15508
- Moulder, B. A., analog-digital models of stream-aquifer systems, 12754
- Moulds, Donald E., cadmium, 13008
- Mound builders of nuclear age, 202
- Mount Baker National Forest:
 - annual report, 12687
 - 1968 hemlock looper project, 14266
- Mount Hood National Forest:
 - designate Mount Jefferson Wilderness, report, 4046
 - general information, 8284
 - Mount Jefferson Primitive area, general information, 8285
- Mount Jefferson Wilderness Area:
 - designate, report, 4046
 - general information, 8285
- Mount McKinley National Park, general information, 11552
- Mount Rainier, Wash.:
 - geologic story, 14334
 - influence of sitka alder on soil formation and microbiological succession on landslide, 12707
- Mount Rainier National Park, general information, 10208
- Mount Rushmore National Memorial, general information, 8730
- Mt. St. Helens, Gifford Pinchot National Forest, general information, 14271
- Mountain pine beetles, *see* Beetles.
- Mountain States, *see* Rocky Mountain States.
- Mountains, snow cover, temperature profiles, 1918
- Mounts, Jack, 1968 hemlock looper project, Mount Baker National Forest, 14266
- Mourad, A. G., satellite applications to marine geodesy, 4674
- Mourant, Walter A., water resources and geology of De Baca County, N. Mex., 9907
- Mourning doves:
 - habitat management, 16430
 - hunting, possession, transportation, importation, 1969-70, Federal regulations governing, 13461
 - status report, 6256
- Mouse, *see* Mice.
- Month:
 - oral acidogenic bacteria in Antarctic, 12998
 - oral care for oral cancer patients, conference, 13359
 - oral hygiene effectiveness monitoring, use of Snyder's caries activity test, 5930
- Move ahead! research careers in Forest Service, 1513
- Movement (psychology):
 - coordination of voluntary movements of man in a zero gravitational field (under weightlessness), 13147
 - skill training for production of memorized movement pattern, 2204
 - sub-orbital studies of behavior in gravity field, suitability of white rats, 2206
- Moving, *see* Transportation.
- Moving pictures, *see* Motion pictures.
- Mowery, Thomas M., premise and home environmental health survey, Papago Indian Reservation, 13361
- Moyer, D. David, land tenure in United States, development and status, 11864
- Moyer, Forrest T.:
 - injury experience and worktime in mineral industries, 941, 17175
 - injury experience in coal mining, 11380
- Mozambique, *see* Portuguese East Africa.
- MP series, 779, 4388-90, 5749-50, 7077, 8401, 11266-271, 12816-817, 14393-396, 15837-838
- MPDI (marine products development irradiator), *see* Irradiators.

- MRA, *see* Model Reporting Area for Blindness Statistics.
- MSI series, 2594, 3422
- MTMTS, *see* Military Traffic Management and Terminal Service.
- Mud Creek:
flood plain information, 9696
floods in Atlanta, Ga., how to avoid damage, 12541
- Mud daubers, *see* Wasps.
- Mud Hills, Barstow formation, San Bernardino County, Calif., diagenesis of tuffs, 14351
- Mud River:
flood plain information, 12468
floods in Milton, W. Va., how to avoid damage, 12503
- Muddy Run, flood plain information, 9670
- Mudge, Melville R., reconnaissance geology, geophysics, and geochemistry of southeastern part of Lewis and Clark Range, Mont., 731
- Mueller, C. R., intermolecular forces and liquid state, 5762
- Mueller, Hans-Karl, stable crack propagation in viscoelastic strip, 7227
- Mueller, Lincoln A., evaluation of small-diameter Black Hills ponderosa pine for veneer and plywood, 5669
- Muhich, Anton J., 1968 national survey of community solid waste practices, 2424
- Mukewater Creek, Colorado River basin, Tex., 1966, compilation of hydrologic data, 12764
- Muleshoe National Wildlife Refuge, birds, list, 1416
- Mullady, Philomena, Canada manpower policy and programs, 879
- Mullan, James W., use of echosounder in measuring distribution of reservoir fishes, 7475
- Muller, Charles H., supersonic compressor stage development, 13675
- Mullin, Sylvia R., progressive fish-culturist, 3339
- Mullins, Cecil J.:
reasons for Air Force enlistment, 3675
selection of foreign students for training in United States Air Force, 6403
- Multiloop tasks, *see* Control systems.
- Multiple independently targeted reentry vehicles, *see* Missiles.
- Multiplexing, mapping, Army technical manual, change, 5123
- Multipliers, multiplier phototubes exposed to spatial radiation, degradation, 7238
- Multistage flash distillation, *see* Flash distillation.
- Multistage probability model of sample reduction in mineral industries, 973
- Multi-troubled jobseeker, case of jobless worker, with convulsive disorder, 16000
- Munford, J. A., evaluation of meta-benzendisulfonic acid as stress-reducing additive in Watts nickel electroplating bath, 16152
- Munger, James A., public access to public domain lands, 1514
- Municipal Bond Guarantee Corporation, establish, hearings, 344
- Municipal bonds:
bond rating practices and effects on municipalities, hearings, 344
tax reform hearings dealing with State and municipal bonds, etc., summary of problems, 7989
tax treatment, tax reform—
hearings, written statement of witnesses, 7985
press releases announcing tentative decisions, 13945
- Municipalities, *see* Cities and towns.
- Munse, W. H., effect of repeated loads on low temperature fracture behavior of notched and welded plates, 1376
- Munson, Frederick P., area handbook for Cambodia, 163
- Murata, K. J., isotopic composition of diagenetic carbonates in marine miocene formations of California and Oregon, 11246
- Murmansk Oblast, RSFSR, national economy surveyed, USSR study, 5828
- Murphy, Edwin M., use of fly ash for remote filling of underground cavities and passageways, 982
- Murphy, G. W., activated carbon used as electrodes in electrochemical demineralization of saline water, 5760
- Murphy, James E., preparation of thorium metal by vacuum distillation of electrodeposited thorium-chromium and thorium-manganese alloys, 10066
- Murphy, James L., effect of asphalt and wax emulsions on moisture changes in slash, 17051
- Murphy, Robert T.:
addresses, etc.—
Sept. 18, 1969, 15130
Oct. 16, 1969, 15128
- Murphy, W. J., Rhode Island landings, 10662
- Murray, C. Richard, estimated use of water in United States, 4355
- Murray, John R., portable station for recording fire weather data, 17031
- Murrumbidgee River, and Paleochannels, Australia, river adjustment to alter hydrologic regimen, 4366
- Murtagh, Thomas B., planetary probe guidance accuracy influence factors for conjunction-class missions, 4701
- Muscat, Muscat and Oman, capsule facts for Armed Forces, 128
- Muscles:
muscular response effort monitoring performances as function, 6446
myology, turkeys, atlas, 196
- Muscovite, *see* Mica.
- Musen, Peter:
application of Hansen's method to Nth satellite of Jupiter, 2267
planetary effects in motion of natural satellites, 16153
- Museums:
preserving mammals for museum study, directions, 13413
public—
definition, clarify, report, 15401
permit donations of surplus property, report, 15401
U.S. Army, directory, 7202
- Music:
catalog of copyright entries, 1762-63, 15485, 15487
Library of Congress catalog, 907, 16038
- Musical instruments:
Federal item identification guides for supply cataloging, supplements, 2849
trade and tariff information, summaries, 1465
- Muskegon, Mich., area wage survey, 16019
- Muskegon County, Mich., soil survey report, 6245
- Muskegon Heights, Mich., area wage survey, 16019
- Muskmelons:
cantaloup breeding, correlations among fruit characters under mass selection, 8993
cooperative muskmelon breeding program in Texas, 1955-67, new rating scales and index selection facilitate development of disease-resistant cultivars adapted to different geographical areas, 11887
- Muskrats, habitat needs, etc., 14867
- Mussels, certified shippers, list, 2651
- Mutter, H. B.:
remarks—
Sept. 4, 1969, 14209
Sept. 30, 1969, 15714
- Mutton:
fresh, USDA institutional purchase specifications, 1747, 8097

Mutual assistance, *see* Military aid.
 Mutual Benefit Foundation, relief, 6590
 Mutual defense, *see* Military aid.
 Mutual defense assistance control act of 1951, *see* Exports.
 Mutual funds, *see* Investment Companies.
 My occupation, driller, USSR study, 17133
 Mycoplasma, nongonococcal urethritis associated with, T strains, 14511
 Mycyk, Roman T.:
 floods in Sycamore NE quadrangle, north-eastern Illinois, 8346
 floods in Sycamore SE quadrangle, north-eastern Illinois, 8347
 Myer, Fred P., treatment tips how to determine quantities for chemical treatments in fish farming, 1428
 Myers, Cecil K., comparison of 7 systems for air conduction audiometry from 8 20 KC/S, 13000
 Myers, Charles W., checklist of amphibians and reptiles of Barro Colorado Island, Panama, with comments on faunal change and sampling, 13422
 Myers, Clifford A.:
 rapid computation of yield tables for managed even-aged timber stands, 698
 simulating the management of even-aged timber stands, 697
 Myers, Mardy, major statistical series of Department of Agriculture, how they are constructed and used, gross and net farm income, 14987
 Myers, Robert J.:
 accrued cost of SMI program for 1966 and 1967, 14862
 comparison of actual experience under III with estimates of various organizations, 8854
 comparison of actual experience under OASDHI system with short-range cost estimates, 6227-28, 11664
 current experience of SMI program on cash basis, 14863
 disability incidence rates under OASDHI system, 1386, 16409
 distribution of SMI bills and reimbursements by type of service, 13435
 hospital utilization and average daily hospital costs for persons aged 65 and over, 17380
 mortality of aged before and after medicare, 10366
 SMI benefit experience for 1966-68 as shown on payment records, 14861
 Myers Flat, Calif., floods, South Fork Eel River, causes, possible solution to prevent damage, etc., 12538
 Mylonas, C., notch brittleness after prestraining, 4922
 Myocardium, *see* Heart.
 Myodocopa, *see* Crustaceans.
 Myology, *see* Muscles.
 Myxomycetes, from Dominica, 4796
 Mzhavanadze bestows honor on Rustavi komsomol, 4453

N

N.A.S.A., *see* National Aeronautics and Space Administration.
 N.B.S., *see* National Bureau of Standards.
 N-dodecane, diffusion-limited, liquid-phase oxidation at 200°C, 10250
 N.I.H., *see* National Institutes of Health.
 N.O.D.C., *see* National Oceanographic Data Center.
 N.R.A.B., *see* National Railroad Adjustment Board.
 N.K.O.T.C., *see* Naval Reserve Officers Training Corps.
 Nacelles, supersonic nacelle-wing interference, numerical method for evaluation and utilization, 7259

Nachtsheim, Philip R., analysis of stability of thin liquid film adjacent to high-speed gas stream, 4713
 Naftalin, Mortimer L., historic books and manuscripts concerning horticulture and forestry in collection of National Agricultural Library, 1157
 Nagel, Max R., problems and programs on use of submillimeter waves in space, 1940
 Nagel, William, foreign trade regulations of Switzerland, 9209
 Nagy, Fred R., industry wage survey, work clothing, 11338
 Nagy, John:
 explosibility of miscellaneous dusts, 2175
 explosion development in spherical vessel, 13024
 Nahal, L.:
 mineral industry of—
 Federal Republic of Germany, 2140
 France, 2141
 Nails and spikes:
 making, classification definitions, 2361
 nails, Federal item identification guide, change, 15510
 sharp cone-cylinder spikes on 120° blunted cones at Mach numbers, 11453
 Nakano, Akemi, *see* Duke, Noriko S.
 Nam Chi project, lower Mekong River basin, drainage investigations and requirements, report, 13397
 Nam Mun project, lower Mekong River basin, drainage investigations and requirements, report, 13397
 Nam Ngum River and Valley, development fund, agreement, 11714
 Names (personal):
 Spanish-surname farm operators in southern Texas, 9641
 NAMI, *see* Naval Aerospace Medical Institute.
 Naming of hurricanes, 13535
 NAPCA—
 progress toward cleaner air, 10322
 signposts of progress in conserving natural environment, 10323
 Narcissus bulb fly, *see* Flies.
 Narcotic addicts, comprehensive narcotic addiction and drug abuse care and control act of 1969, hearings, 16890
 Narcotic habit:
 combating drug abuse, proposals, message from the President, 12150
 drug dependence and abuse, 1928-66, bibliography, 4872
 Narcotic addict rehabilitation act of 1966, 10324
 public health laws, compilations, 493, 5458
 respect for drugs, community service program, 5966
 Narcotics:
 and drugs, publications list, 7411
 Federal narcotic and dangerous drug laws, handbook, 2181
 laws, compilation, 1686
 recent research on narcotics, LSD, marijuana, and other dangerous drugs, 17352
 Task Force on Prescription Drugs, background papers, drug users, 1983
 workshop for college deans & campus security officials, 8587
 see also Drugs.
 Narcotics and Dangerous Drugs Bureau:
 bulletin, 14564
 workshop for college deans & campus security officials, 8587
 NAREC, *see* Electronic computers.
 Nares Strait, oceanography, 1648
 Narrow, I., study of bending of high strength reinforcing bars, 600
 Narrows unit, *see* Missouri River Basin project.

- NASA, *see* National Aeronautics and Space Administration—North American Securities Administration.
- Nash, Edmund, two articles about recent developments in Soviet economy, 2122
- Nash, G. E., analysis of forces and bending moments generated during the NLR dynamic tear test, 13289
- Nashua River, pollution of interstate waters, Mass.-N.H., conference proceedings, 17006
- Nashville, Tenn., riots, civil and criminal disorders, investigations, hearings, 8073
- Nassif, Helen G.:
Court of Customs and Patent Appeals—customs cases adjudged, etc., 4119
patent cases adjudged, etc., 4120
- Natality, *see* Birth.
- Nathan, Richard P., jobs and civil rights, role of Federal Government in promoting equal opportunity in employment and training, 7762
- Natick Laboratories, Natick, Mass., technical reports, 3757-62, 7655-57, 13657
- National Academy of Engineering:
report, 1967—
departmental edition, 5967
document edition, 5386
technology assessment study, report, 16824
- National Academy of Sciences:
general physical constants recommended by NAS-NRC, adopted by NBS, 11516
Panel on Technology Assessment, report, 13941
report, 1967—
departmental edition, 5967
document edition, 5386
- National Accelerator Laboratory, ground-breaking ceremony (remarks), 204
- National Adult-Youth Communications Week:
designate—
law, 16738
report, 15373
- National Advisory Cancer Council, report, 6064
- National Advisory Commission on Food and Fiber, report, 8784
- National Advisory Commission on Health Facilities, report, 2401
- National Advisory Commission on Low Income Housing, establish, compilation, with related documents, 393
- National Advisory Committee on alcoholism, interim report to Secretary of Department of Health, Education, and Welfare, 4376
- National Advisory Committee on Handicapped Children, interim emergency report, 9656
- National Advisory Council on Economic Opportunity, continuity and change in anti-poverty programs, reports, 9532, 12146
- National Advisory Council on Education of Disadvantaged Children, annual report, 4658
- National Advisory Council on Education Professions Development, annual report, 7224
- National Advisory Council on Extension and Continuing Education, annual report, 16747
- National Advisory Council on International Monetary and Financial Policies, annual report, 6573
- National Advisory Council on Vocational Education, annual report, 15627
- National Aeronautics and Space Administration:
act of 1958, as amended, and related legislation, staff report, 5423
Administrator, nomination of Thomas O. Paine, hearing, 5424
- AEC-NASA—
tech brief, 3155
technology survey, 7246
Apollo program posters, 14566
appropriations, 1969, authorization, hearings, index, 10806
- National Aeronautics and Space Administration—Continued
appropriations, 1970—
authorization—
hearings, 7972, 9367, 9442-43
reports, 9302, 9306, 10877
hearings, 9332, 12285
contracting for research with sponsored nonprofit contractors, need for improving guidelines, GAO report, 5689
contractor report CR (series), 992-1037, 2182-2209, 4660-89, 5970-86, 7225-42, 8589-8603, 10068-91, 11402-419, 13039-52, 14567-591, 16120-146, 17196-212
contributions to bioinstrumentation systems, survey, 4698
contributions to development of special-purpose thermocouples, survey, correction sheet, 4696
control of materials under Apollo program, procedures and practices, GAO review, 722
EP series, 4691-92, 7243, 8604-6, 10092-95, 11420-423, 13053, 17213
film list, 11425
future space programs, hearing, 14011
general information, 10092
headquarters telephone directory, 3153
incentive contracting guide, 15495
Inventions and Contributions Board, petitions for patent waiver findings of fact, etc., 2271, 3252, 11508
management controls of quality assurance system for Apollo program, 7035
management issuances, 5588
mission report MR series, 16119
NASA contractors trim cost, 4690
NASA contributions to fluid-film lubrication, survey, 10101
NASA facts, 7244, 11424, 13054-55
NASA historical series, 11432, 13060
NASA management issuances, master list, 5969
NASA picture sets, 13056-57, 14592-594
NASA scientific and technical information system and how to use it, 16147
noise alleviation of large subsonic jet aircraft, progress of research, 2210
phased project planning guidelines, 1154
positions in aerospace technology, 15134
poster, 5968
press releases, 3305
procurement regulation, 3157
directive, 3154
publications, educational, lists, 5987
reliability and quality assurance publication, NHB series, 11509
research and technology, program digest flash index, 10164
Saturn S-IVB-503 stage accident under Apollo program, GAO review, 8336
scientific and technical reports for 1968, selected listings, 10102
semiannual report—
departmental editions, 1155-56, 6027-28
document editions, 368-369, 5322, 5334
SP series, 1038-44, 2210-14, 2558, 4693-98, 5988-89, 7245-47, 8607-8, 10096-10102, 11426-432, 13058-65, 14595-600, 16148-151, 17214-216
space flight investigations, opportunities for participation, 1150-51, 1153, 3227, 7308-312, 8659-60, 11507, 14653, 16212
special publications, list, 14601
standard procedures for microbiological examination of space hardware, 1045
support service contracting, status, staff report, 420
tech briefs, 3155, 7248
technical notes, 1046-1144, 2215-69, 4699-4750, 5990-6022, 7249-7306, 8609-53, 10103-153, 11433-498, 13066-139, 14602-649, 16152-202, 17217-253

- National Aeronautics and Space Administration—Continued
technical reports, 1145-48, 4751-56, 6023-25, 7307, 8654-57, 10154-157, 11499-11501, 13140-141, 16203-206, 17254
technical translations, 1149, 2270, 4757-59, 6026, 8658, 10158-163, 11502-506, 13142-13150, 14650-652, 16207-210, 17255-256
university program, active grants and research contracts, quarterly report, 3156
National Aeronautics and Space Council:
appropriations, 1970, hearings, 9332
Executive Secretary, nomination of William A. Anders, hearing, 10882
National Agricultural Library:
appropriations, 1970—
hearings, 7945
reports, 9311, 12254
historic books and manuscripts concerning horticulture and forestry in collection, 1157
library lists (series), 1157-58, 2272, 10165
National Air Pollution Control Administration:
air quality and emission data program, 4871
paper (series), 13378
publications, AP series, 1341-42, 4885-86, 7425, 13354-355, 17345-346
publications, APTD series, 13356, 14797, 16356-361, 17347-348
National Air Surveillance Networks:
continuous air monitoring projects, tabulations and summaries—
1962-63 data, Chicago, 17347
1964 data, Chicago, Cincinnati, Philadelphia, St. Louis, Washington, D.C., 14797
1965 data, 16358
1967 data—
Chicago, 16359
St. Louis, 16360
Washington, D.C., 16361
National Airspace System Program Office,
system package program NS-SPP series, 14190
National and Regional Export Expansion Councils, helping American business to complete successfully in world markets! general information, 12806
National Arboretum, camellias, general information, 54
National Archery Week:
designate—
law, 15203
report, 12267
National Archives:
Center for Polar Archives, general information, 11510
genealogical records, 14654
general information, 1160, 16213
microfilm publications, pamphlet accompanying, 1161-70, 2275-80, 6031-35, 7315-18, 8663, 10167-170, 11511-513, 13151-155, 14655-661, 16214-221
pension and bounty-land warrant application files, 6030
preliminary inventories series, 1171-72
prologue, journal of National Archives, 10171
record groups in National Archives and Federal record centers, list, 7314
regulations for public use of records, 8662
see also Records.
National Archives and Records Service:
general information leaflets, 6030, 8662, 11510, 14654, 16213, 17259
publications, 10172, 17259
slides, list, 2273
National Assessment of Educational Progress, where is it now? 16960
National Atmospheric Sciences Program, 4252
National Aviation Facilities Experiment Center, Atlantic City, N.J., report NA series, 15692-694
National banks:
foreign activities, Federal reserve regulation, 14232
State and local taxes, clarify liability, hearing, 9339
State taxation, provide uniform rule, reports, 10718, 12165
National Bison Range:
birds, list, 13453
mammals, list, 13458
National Bureau of Standards:
Activation Analysis Section, summary of activities, 7324
ARPA-NBS program of research on high temperature materials, 16228
building research, 17261
films, list, 1175
frequency and time broadcast services, radio stations WWV, WWVH, WWVB, WWVL, 11519
errata, 14670
handbooks, 8665, 13157, 14663
journal of research, 3024 26
Microchemical Analysis Section, summary of activities, 16233
miscellaneous publications, 4761, 11516, 16226
monographs, 1173-74, 13158, 14665, 17262
national standard reference data series, 1176, 2285, 6045, 8667, 10174, 14666-667, 17263
physical constants, recommended by NAS-NRC, adopted by NBS, 11516
postdoctoral research associateships, 1969, general information, 1177
publications—
announcements, 3346
list, 7321
newsletter, 3184
Separation and Purification Section, summary of activities, 2296
special publications, 1178, 2286-89, 4762-64, 6046-49, 7321-23, 8668-69, 10175-176, 11519-522, 14670-671, 16225-226, 17264
standard reference data system, appropriations, 1970 and 1971, authorizing reports, 10712, 10735
standard reference materials—
catalog and price list, 17264
quarterly insert sheets, 4761, 16224
homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of W-20 percent Mo alloy, etc., 4762
news for users of, 3199
technical highlights, annual report, 2295
technical news—
bulletin, 3492
press release, 3493
technical notes, 1179 81, 2296-97, 4765-69, 6050-53, 7324-29, 8671-72, 10177-181, 11523 526, 13159-161, 14672-675, 16227-234, 17265
Time and Frequency Division, standard time and frequency, its generation, control, and dissemination, 14672
National Cancer Institute:
clinical, research, and staff associate, informational bulletin, 8698
End Results Group, 1967 code manual, 1191
journal, 3022
monographs, 6061, 11537, 16258-259
research report, 4784
National Capital, *see* Capital of United States.
National Capital Housing Authority, annual report, 10182
National Capital Planning Commission:
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793

- National cemeteries, *see* names of cemeteries or places where located.
- National Center for Air Pollution Control, progress report, 133
- National Center for Health Services Research and Development, health services research centers, research grant program, 11617
- National Center for Health Statistics, vital and health statistics series, PHS publication 1000, current listing, 14785
- National Center for Radiological Health, research projects supported by grant funds, 4887
- National Center on Educational Media and Materials for the Handicapped:
establish—
amend law, hearings, 9483, 10777
law, 15209
reports, 9425, 15231
- National Clearinghouse for Mental Health Information:
crime and delinquency abstracts (periodical), 2718
occupational mental health notes, 3158
- National Clearinghouse for Poison Control Centers, bulletins, 3159
- National Cleft Lip and Palate Intelligence Service, congenital malformations classification, for use in coding birth certificates, 4874
- National Club Association, civil defense action program for members, 10618
- National Collection of Fine Arts, and National Portrait Gallery, general information, 13163
- National Commission for Product Safety, extend, hearings, 10793
- National Commission on Causes and Prevention of Violence:
Miami, Fla., report of Miami Study Team on Civil Disturbances, 4859
progress report, 4862
staff report submitted to the Commission, 13321, 13324-328
- National Commission on Fire Prevention and Control:
appropriations, 1970—
hearings, 10767, 16878
report, 12192
- National Commission on Libraries and Information Science:
establish—
hearings, 7952, 9484
reports, 9292, 9426
- National Commission on Product Safety:
appropriations, 1970—
hearings, 9330
report, 12197
extend—
hearing, 12291
law, 15199
reports, 8047, 10750
- National Commission on Reform of Federal Criminal Laws:
appropriations, 1970—
hearings, 10767, 16878
report, 12192
extend—
law, 12124
reports, 6661, 10863
- National Commission on Urban Problems:
hearings, 1312
press releases, 3306
research reports, 1314-18, 2402, 4860, 7405-6, 8778, 11599, 10284
- National Committee on Vital and Health Statistics, *see* United States National Committee on Vital and Health Statistics.
- National Communicable Disease Center:
foodborne outbreaks, 1968 annual summary, 14798
laboratory methods in anaerobic bacteriology, manual, 1339
surveillance—
hepatitis report, 11620
- National Communicable Disease Center—
Continued
surveillance—continued
neurotropic viral diseases—
encephalitis annual summary, 13357
poliomyelitis annual summary, 11621
rubella report, 13358
salmonella report, 10325, 11622, 16362
zoonoses—
psittacosis, annual summary, 11623
rabies, quarterly summary, 11624
- National Conference for Coordinating Rehabilitation and Education Services for the deaf, proceedings, 14849
- National Conference of Standards Laboratories, making valuable measurements, proceedings, 8669
- National Conference on Continuing Action for Human Rights, report, 11701
- National Conference on Weights and Measures, annual report, 7323
- National Conference on Wheat Utilization, 5th, papers, 11792
- National Consumer Information Foundation, establish, hearings, 14034
- National consumer protection hearings, 17005
- National Corporation for Housing Partnerships, incorporator, nomination of Carter L. Burger, hearing, 14018
- National Council of the Arts, Chairman, nomination of Nancy Hanks, hearing, 16893
- National Council on Drug Abuse Control, hearings, 16890
- National Council on Indian Opportunity:
appropriations, 1970—
hearings, 7946
reports, 12171, 15398
- National Council on Marine Resources and Engineering Development:
annual report—
departmental edition, 4770
document edition, 3972
appropriations, 1970, report, 15398, 16793
expiration data, change—
law, 9241
reports, 7885, 9406
- National Council on the Arts, annual report, 8677
- National Credit Union Administration:
create—
hearings, 10772, 15420
report, 10747, 12189
- National Data Buoy Development Project, National Data Buoy Systems, first scientific advisory meeting, proceedings, 16696
- National Data Buoy Systems, first scientific meeting, proceedings, 16696
- National debt, *see* Public debt.
- National defense:
acquisition and production of F-4EJ aircraft, agreement with Japan, 8900
agreement with—
Canada, 7509
Indonesia, 17408
Spain, 14910
code of Federal regulations, 5630-31, 6963-65, 6971, 9812-14, 11124-125
current status of military defense, summary, 6822
defense indicators, 2752
defense industry bulletin (periodical), 2753
defense-related economic activity during 1969, 2d quarter (statement), 13809
defense workers, reemployment experiences, 3733
disaster preparedness, general military training, 5079
economic indicators, impact of defense programs, 3424

National defense—Continued
 education act of 1958—
 awards for modern foreign language
 and area study, 5533
 graduate fellowships, 1969-70 graduate
 programs, 4179
 language development program, research
 completed, etc., list, 10975
 title 3, fiscal years 1959-67, manage-
 ment view, 10983
 Industry and national defense (remarks),
 309
 management of defense activities, actions
 for increasing efficiency and economy
 ideas for managers, 16921
 mobilization report, 3982
 NATO and defense of Europe—
 discussion guide, 16471
 United States foreign policy issues,
 16470
 perspectives in defense management (pe-
 riodical), 3249
 port preparedness, film, 12034
 preparedness program, investigation, re-
 port of subcommittee, 1739-35
 program, 1970-74 and 1970 budget, state-
 ment, 4146
 rural fire defense in wartime, mission, or-
 ganization, coordination, 11881
 Soviet budget provides for research and
 defense, 15916
 special military operations, 5087
 changes, 9014, 13642
 student loan program—
 1969-70 allocations of Federal funds,
 14052
 report, 15268
 treatment of mass civilian casualties in
 national emergency, 1350
see also Civilian defense—Military se-
 curity—National security.
 National defense education act, *see* Educa-
 tion.
 National economy, *see* Economic conditions.
 National Education Association:
 corporate powers, liberalize, amend act—
 law, 12122
 reports, 6681, 12249
 National electric rate books, 643-648, 1873-
 82, 3160, 4263-69, 5618, 9783-88, 11068-
 76, 12620-622, 14214-221, 15721-724,
 16995-997
 National Elk Refuge, general information,
 1413
 National emergency disputes, Labor man-
 agement relations (Taft-Hartley) act,
 17155
 National emergency standby regulations and
 instructions, personnel and manpower,
 FPM supplement, 2864
 National Endowment for the Arts:
 annual report, 8677
 programs, lists, 6055, 7336
 National Endowment for the Humanities:
 annual report, 7337
 1969-70 program, information for ap-
 licants, 11532
 senior fellowships, 1970-71, announce-
 ment poster, 14679
 National Environmental Satellite Center:
 ESSA direct transmission system users
 guide, 15671
 ESSA technical memorandum NESCTM
 series, 14163
 ESSA technical report, NESCT series, 1837-
 38, 6920-21, 9727, 14171
 National estuarine inventory, handbook of
 descriptors, 9835
 National Exhibition of Prints, held at Li-
 brary of Congress, catalog, 8566
 National Export Expansion Council, policies
 to improve U.S. balance of trade and of
 payments, 1968 reports, 3905
 National Family Health Week, designate,
 report, 8038

National Fertilizer Development Center:
 research and development program, ab-
 stracts relating to objectives, 2889
 TVA, annual report, 7548
 National flood insurance, act of 1968, com-
 pilation, with related documents, 393
 National Food Assistance Commission, es-
 tablish, hearings, 9444
 National Forest Reservation Commission:
 annual report, 10821
 print as Senate document, report, 10852
 National forests:
 America's playgrounds—
 camping facilities, 5058
 skiing, 3663
 animal damage to conifers in Pacific
 Northwest region, 11192
 backpacking in national forest wilderness,
 a family adventure, 10493
 California, 15753
 Colorado, multiple use of resources, 14272
 commercial timberlands, development and
 improved management to establish high
 timber yield, hearings, 10763
 development road system, traffic regula-
 tion and law enforcement, 13602
 evaluation of Scleroderma canker on na-
 tional forest land in Lake States, 11169
 fire report, 11157
 in your service, the work of Uncle Sam's
 forest rangers, 14988
 Intermountain region, yearbook, national
 forests in profile, 12689, 14273
 lands of many uses, quality of environ-
 ment vital to all, 7003
 log scaling handbook, 9846
 Pacific Northwest, 1968, report, 12688
 purposes and management, 13197
 recreation in Nevada, guide, 4300
 regulations governing use of national
 forest recreation sites & areas, 17016
 stumpage prices for sawtimber sold
 (periodical), 3472
 system—
 areas, 672
 resolutions, adopted 1968, Forest Serv-
 ice comments, 4299
 timber sale accomplishments, 11168
 Wyoming, multiple use of resources, 14274
see also Wilderness areas—also names of
 forests.
 National Foundation on the Arts and the
 Humanities:
 act of 1965, as amended, text, 6056
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 National Gallery of Art:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 brief guide, 8678
 catalogue of color reproductions, books and
 catalogues, educational materials, 8679
 history of art, reports and studies, 1183,
 14680
 invitation to, 11533
 National Grange, civil defense programs,
 13782
 National Guard:
 Air, general officers, list, 4771
 air reservist (periodical), 2575
 Army—
 brigades, combat readiness, subcommit-
 tee report, 1731
 general officers, list, 4771
 lands within Army National Guard
 Facility, Ethan Allen, Vt., adjust
 legislative jurisdiction, report, 12280
 reemployment rights, briefing session
 and program, 13658
 technicians—
 civilian personnel, manning criteria,
 7338
 manning criteria, 1184

- National Guard—Continued
 - civilian personnel, technician performance rating plan, 10186
 - financial administration, quarterly review of State operating budget, 6057
 - job rights, key answers for employers, etc., 5002
 - reemployment rights, briefing sessions and program, 9041
 - State operating budget, formulation, pamphlet, 8681
 - trophies—
 - Eisenhower trophy to outstanding unit of company size, announcement of winners, pamphlet, 17271
 - National Guard trophy, Pershing trophy, National Guard (State) trophy, announcement of winners, 8680
- National Guard Association of United States, trophies, announcement of winners, 8680
- National Guard Bureau:
 - annual report, 10184
 - ARNG budget computation and summary report, logistics management reporting procedures, 17272
 - pamphlets, 1184, 6057, 7338-39, 8680-81, 10185-86, 17271-272, 16238
- National health survey, vital and health statistics, 1352-54, 6211, 7431-33, 8822, 10338-339, 11643-644, 13380-16375- 377, 17359
- National Heart Institute:
 - 15th conference of cardiovascular training grant program directors, report, 4783
 - national blood resource program, 14691
- National Herbarium, contributions from, 4794-96, 7354, 10199
- National Highway Safety Bureau:
 - contractors report, executive summaries, 16239
 - contracts, motor vehicle safety performance standards, 8682
 - maximum safe speed for motor vehicles, staff report, 13166
 - priorities seminar, proceedings, 16242-250
- National Hispanic Heritage Week, designate, law, 340
- National housing act, *see* Housing—Loans.
- National Industrial Hygiene Week, designate, report, 16834
- National Institute of Allergy and Infectious Diseases, transplantation immunology research, program, 16266
- National Institute of Arthritis and Metabolic Diseases:
 - artificial kidney-chronic uremia research and development program, opportunities for participation, 13175
 - general information, 7345
- National Institute of Dental Research:
 - directory of U.S. facilities providing cleft lip and cleft palate services, 16260
 - grants and wards, 1967 funds, 1194
- National Institute of Environmental Health Sciences, history, mission, etc., 7343
- National Institute of General Medical Sciences, annual report, 11538
- National Institute of Mental Health:
 - applied research grants, 14971
 - Center for Studies of Schizophrenia, functions, and activities, 17349
 - experimental and special training grants guidelines for applicants, 17337
 - NIMH in brief, 17350
 - training support, 5016
- National Institute of Neurological Diseases and Blindness:
 - NINDB neurological information network, 11539
 - research, summary, 6063
- National Institute of Neurological Diseases and Stroke:
 - mission & publications for public, 16261
- National Institute of Neurological Diseases and stroke—Continued
 - neurological research supported by, summaries, 6062
 - research summary, 17279
- National Institutes of Health:
 - almanac, 10193
 - appropriations, 1970—
 - hearings, 10766
 - report, 12197
 - associate training programs, medical and biological sciences, 4775
 - career in administration, 10190
 - career opportunities, 16252
 - fellowships—
 - postdoctoral research, 16262
 - predoctoral research, 16263
 - special research, 17278
 - general clinical research center grants, need for further action to determine allowable costs and recover overpayments, GAO report, 1944
 - library translations index, 1967 supplement, 1196
 - nursing research grants supported by Nursing Division, list, 6058
 - programs, work, etc., 1195, 4779
 - public advisory groups—
 - authority, structure, functions, 13173
 - councils, committees, boards, study sections, roster of members, 4786, 11542
 - publications list, quarterly, 14692
 - research fellowships, information and eligibility criteria, 16349
 - resources analysis memo, 14695
 - resources for medical research, reports, 1199, 4783, 6066, 7347, 10195
 - scientific directory and annual bibliography, 11543
 - training programs—
 - 1968 funds, 4780
 - pharmacology research associate, 4781
 - see also* Clinical Center, National Institutes of Health.
- National Institutional Science Council:
 - establish—
 - hearings, 419, 9366
 - report, 15274
- National Insurance Development Corporation, create, compilation, with related documents, 393
- National labor relations act, *see* Industrial relations.
- National Labor Relations Board:
 - annual report, 14698
 - appropriations, 1970—
 - hearings, 9330
 - report, 12197
 - case developments, quarterly report, 3358
 - congressional oversight, hearings, 4087
 - appendix, 5454
 - decisions—
 - and orders, bound volumes, 4790, 13177
 - digest, CS-series, 2767
 - digest, supplement, 13178
 - election reports, 3151
 - field manual, 3162
 - revised pages, 7348, 8701
 - how now, National Labor Relations Board? (remarks), 2309
 - jurisdictional guide in administration of national labor relations act, 8700
 - press releases, 3307
 - provides services for working men & women, employers, & unions, 2311, 8703
 - statistical summary, quarterly, 3152
 - weekly summary of cases, 3598
- National Library of Medicine:
 - annual reports, 6068, 17283
 - bibliography of medical reviews, 3165-66
 - catalog, cumulative listing, 3164
 - current catalog, biweekly listing, 3163
 - index medicus, 3165
 - MEDLARS services, guide, 1202, 8704

- National Library of Medicine—Continued
post-graduate library associate training
program in biomedical communications,
curriculum, qualifications, etc., 17284
- National Marketing Advisory Committee,
new relationship, background, programs,
and accomplishments, report, 5286
- National Marketing Conference, proceedings,
5286
- National Materials Policy Commission, estab-
lish, proposal, 14061
- National Mediation Board:
appropriations, 1970—
hearings, 9330
report, 12197
craft or class determination, railroad or
airline employees, 11547
member, nomination of George S. Ives,
hearing, 15474
report, 6069
- National Memorial Stadium Commission,
abolish, report, 15410
- National Meteorological Center, operations,
etc., 14176
- National monuments and memorials:
code of Federal regulations, 9815
monuments of scientific significance, nat-
ural area category, compilation of ad-
ministrative policies, 1215
publications, price list, 7409
see also names of monuments or memorials.
- National Motor Vehicle Safety Advisory
Council, 1968-69, summary report, 11754
- National Museum:
annual report, 1206
bulletins, 1203-5, 2312-13, 4792-93, 6070-
71, 7352-53, 8705-10, 10193, 13181-
182, 17285
proceedings, 1207-10, 2314, 4797
title page and contents, 4797
publications, price list, 2407
- National Museum of Natural History & Mu-
seum of Man, guide, 11548
- National Observances and Holidays Commis-
sion, establish, report, 6682
- National Oceanographic Data Center:
highlights, 1968, fiscal year, 16295
newsletter, 3167
NODC's data processing systems, user's
guide, 11560
publication series, 8744
quarterly accessions, computer produced
indexes, 3203
- National Oceanographic Instrumentation
Center, general information, 16294
- National Park Service:
administrative policies for management—
historical areas, compilation, 1214
natural areas, compilation, 1215
recreational areas, compilation, 1216
reports, 12157-158
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793
areas administered by—
and related properties, 2316
visitor accommodations furnished by
concessioners, list, 10209
archaeological research service, 16267
Governor's books—
Iowa, 14705
Kansas, 13195
Minnesota, 14706
Missouri, 14707
Montana, 14708
Nebraska, 14709
North Dakota, 14710
South Dakota, 14711
Wyoming, 13196
historical handbook series, 8725, 14703
National Capital parks, 1969 activities,
7355
press releases, 3308
visitor services training series, 13200
- National parks:
administrative policies—
compilation, 1214-16
reports, 12157-158
areas administered by National Park Serv-
ice, 2316
boating regulations in national park sys-
tem, 1211
camping, fees, facilities, etc., 10200
code of Federal regulations, 9815
1872-2000, public use of system, 14714
Federal lands for parks and recreation act
of 1969, hearing, 9470
fishing, general information, 10202
map, 6085
midwest, general information, 6080
New York City, general information, 6079
northeast, general information, 6081
public use, statistical report, monthly,
3345
publications, price list, 7409
purposes and management, 13197
southeast, general information, 6082
southwest, general information, 6083
USA (posters), 6087-92, 17288
visitor accommodations furnished by con-
cessioners, list, 10209
Washington, D.C., general information,
6086
west, general information, 6084
wildlife management in national parks,
16279
see also names of parks.
- National Plant Materials Center, Beltsville,
Md., annual report, 14868
- National Portrait Gallery, and National Col-
lection of Fine Arts, general information,
13163
- National poultry improvement plan, *see*
Poultry.
- National program for training skilled avia-
tion personnel, preliminary design study,
559
- National program of educational laboratories,
15637
- National Railroad Adjustment Board:
appropriations, 1970—
hearings, 9330
report, 12197
awards, 1231, 4809, 7359-61
report, 6069
- National Railway Labor Conference, emer-
gency board reports, 8177-78
- National Reactor Testing Station:
controlled environmental radioiodine tests,
1967 progress report, 6468
Idaho Falls, Idaho, injection of gas into
lithosphere, 13696
- National Reclamation Association, directors,
annual meeting, 14040
- National Research Council:
general physical constants recommended
by NAS-NRC, adopted by NBS, 11516
report, 1967—
departmental edition, 5967
document edition, 5386
- National Resource Evaluation Center, tech-
nical report, 5560
- National Science Board, NSB series, 6099,
8738, 13202
- National Science Foundation:
act, amendments of 1969, reports, 10880,
16804
act of 1950, amend, reports, 10880, 16804
administer national institutional grants
program—
hearings, 419, 9366
report, 15274
study, 4000
appropriations, 1970—
authorization—
hearings, 7973, 9368
reports, 10716, 10880, 12164, 16804
hearings, 9332, 12285, 12312
current research and development in sci-
entific documentation, 11656

- National Science Foundation—Continued
 Director, nomination of William D. McElroy, hearing, 12315
 grants and awards, 4811
 guide to programs, 11535
 national science research data processing and information retrieval system, establish hearings, 12214
 publications, list, 4814
 report, 1968—
 departmental edition, 4813
 document edition, 3969
 reviews of data on science resources, 4815-16, 10210
 secondary school science and mathematics teaching, improve, history of summer institutes program, 4812
- National securities exchanges:
 credit by brokers, dealers, and members, regulations, 12645
 regulations, NASA remarks (address), 17368
- National security:
 ABM defense systems, strategic and foreign policy—
 antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV), hearings, 14031
 implications, hearings, 8068, 10900
 air traffic control, Federal aviation regulations, 14186
 change, 6934
 careers, college graduates, utilization of manpower by Armed Forces bibliography, 1766
 diplomatic and strategic impact of multiple warhead missiles, hearings, 12217
 free world commercial and security interests, United States maritime policies and their relationships (remarks), 8209
 Government operations, investigation, authorization, report, 4056
 Internal security act, amend, hearing, 14051
 Internal security laws, etc., study and investigation, report, 5413
 management, correspondence courses, Industrial College of Armed Forces, information booklet, 556
 national security and oil imports (remarks), 2002
 The New Left study—
 memorandum, 9476
 print as Senate document, report, 9404
 new role and structure, 6784
 safeguard, what are the true answers? 8781
 safeguarding classified information—
 FAA handbook, 626
 industrial security manual, 12361
 secret, is it really? have you checked security classification specification (poster), 5515
 specialists and generalists, selection of readings, 476
 State-Defense Officer Exchange Program, analysis and assessment, committee print, 6788
 strategy and science toward a national security policy for the 1970's, hearings, 7956
 print as House document, reports, 15287, 16857
 Vietnam, hamlet security, measuring, special study mission, report, 5358
see also National defense.
- National Security Agency, additional super-grade positions, establish, hearings, 12318
- National Security Seminars:
 presentation outlines and reading list, 831, 12874
 prospectus, 10006
- National Severe Storms Laboratory, ESSA technical memorandums, ERLTM-NSSL series, 612, 6911, 11023-24
- National service life insurance, *see* Life insurance.
- National Shipping Authority, current regulations, index, 10041
- National Society of Daughters of American Revolution:
 report, annual, 10819
 print as Senate document report, 5400, 16860
- National Space Science Data Center, NSSDC series, 4760
- National standard reference data series, 1176, 2285, 6045, 8667, 10174, 14666-667, 17263
- National standard reference data system—
 appropriations, 1970-71, authorization, hearings, 9369
 publications, list, 11517
 questions and answers, 11518
- National Stay-in-School Campaign, do your own thing and stay in school, 5536
- National supplier change index, 2876
- National System of Interstate and Defense Highways:
 general information, 10345
 route 52 in West Virginia, designate as part of, hearings, 13939
- National Transportation Safety Board:
 annual report, 1235, 14719
 appropriations, 1970, hearings, 16810
 general information, 14718
 member, reappointment of Louis M. Thayer, hearings, 1737
 press releases, 3309
 publications, list, 7364
- National turkey improvement plan, *see* Turkeys.
- National Union Catalog:
 Library of Congress, 3170
 manuscript collections, 2127
 register of additional locations, 16039
- National Water Commission:
 appropriations, 1970—
 hearings, 12204
 report, 15298
- National Water Resources, Select Committee, on Senate, recommendations, history of implementation, 6790
- National Wilderness Preservation System, annual report, 9251
- National Zoological Park:
 police, revise pay structure pay—
 law, 12119
 reports, 9298, 10853
- Nationality:
 code of Federal regulations, 9800
 country of origin, etc., on death certificate and matching census record, comparability, 10336
- Immigration and nationality act—
 amend, report, 9287-88
 amend to correct inequities, hearings, 406
 amendments, text, 7966
 laws, administrative decisions, 11272
 indexes, 8405, 14398
 nondiscrimination in public and private employment, equal employment opportunity under Federal law, guide, 13785
- Nations, *see* Foreign countries.
- Nation's psychiatrists, 11625
- Nation's water resources, 2541-42
- Nation's youth, chart book, 3867
- Native polity of Ponape, 2315
- Native races, native American arts (series), 2003, 14402
- Nativity, *see* Birth.
- NATO, *see* North Atlantic Treaty Organization.
- Natrona County, Wash., Natrona Unit of Bureau of Land Management's Casper District, public land guide, 12983
- Natural Bridges National Monument, general information, 4804
- Natural dyes in United States, 1204

Natural fluoride content of community water supplies, 10194
 Natural food poisons, 5660
 Natural gas, *see* Gas.
 Natural History Museum, annual report, 1206
 Natural Resource Analysis Center, Systems Evaluation Division, report R series, 12443
 Natural resources:
 aerophoto use in resource management, 8966
 America's department of natural resources, Interior Department, 15848
 beauty for America, general reading list, 2272
 careers for women in conservation, 8939
 conservation—
 conservation (remarks), 5758
 conservation bulletins, 8410, 15848
 conservation information series, 8863
 conservation yearbooks, 5754, 5756
 in your life, services to educators, 14256
 it's your world, grassroots conservation story, 5754, 5756
 man, an endangered species? 5756
 new conservation era, 1964-68, 5756
 1969-70 listings of conservation films and related natural resource film subjects, 15849
 planned management of our resources (remarks), 59
 population challenge, what it means to America, 5756
 publications, list, 7408
 quest for quality, 5756
 third wave, America's new conservation, 5756
 tools for educators, 12675
 Crow Indian Reservation, Mont., soil and inventory resources inventory, Pryor Mountain area, 12821
 depletable resources, tax reform hearings, summary of testimony, 15343
 earth resources in sub-arid lands, remote detection, 2218
 fruitful and delightful land (speech), 37
 Great Plains conservation program, extended—
 hearings, 7941
 reports, 7938, 10866, 16797
 land and water conservation fund act of 1965, amend—
 hearing, 9470
 report, 15374
 Maryland, 9952
 mineral resource valuation for public policy, 14530, 17173
 Minnesota, 11277
 NAPCA, signposts of progress in conserving natural environment, 10323
 North Dakota, 4395
 permit for landfill in Hunting Creek, Va., a debacle in conservation report, 6694
 physical, economic, and social resources of lower Mekong Basin, atlas, 5803
 potentials for outdoor recreational development, appraisal—
 Benton County, Tenn., 17385
 Henry County, Tenn., 17386
 Hickman County, Tenn., 17387
 Trousdale County, Tenn., 17388
 putting conservation to work series, 12675
 resource bulletins, 700-701, 1937-39, 4332-35, 8319-20, 11191-194, 15776
 resource planning in Wyoming, how soil surveys help, 14871
 resource publications (series), 1427-29, 2480, 6255, 7470-72, 10398-399, 11690, 15462-465, 14885, 16456, 17395-396
 resources of Sisseton Reservation area, history, present, potential, 9951
 Soil Conservation Service, helping to renew America's resources, 8863
 water resources functions and programs of Corps of Engineers, 15664

Natural resources--Continued
 westward Alaska, native economy and its resource base, 14201
see also Land.
 Naturalization:
 candidates—
 English and Federal Government, Federal textbook on citizenship, 15846
 our Constitution and Government, Federal textbook on citizenship, 12819
 children of naturalized parents, change critical age to 18, report, 9288
 investigation, authorization, report, 4061
 laws, compilation, 351
 publications, price list, 1327
 requirements—
 and general information, 11275
 understanding English language, waive, report, 9288
 report series, 1257-70, 2349-59, 4883, 6135-51, 7379-89, 8760-64, 10248-70, 11564-571, 13273-304, 14742-755, 16314-317, 17312-315
 see also Citizenship.
 Nature, man and nature in the city, symposium, 10395
 Naugler, Frederic P., bathymetry of region (PORT-421-2) north of Hawaiian Ridge, 8187
 Nauka i zhizn' (Science and life) (periodical):
 selections, 5809, 12946
 Naumann, Robert J., calibration of Pegasus and Explorer XXIII detector panels, 16204
 Nautical almanacs, *see* Almanacs.
 Nautical charts, *see* Maps and charts.
 Navajo Indian irrigation project:
 act of June 13, 1962, amend, hearing, 14045
 additional lands, acquire, report, 13992
 Navajo Reservation:
 hydrogeology (series), 5715, 8353
 regional hydrogeology, Ariz., N. Mex., and Utah, 8353
 road, construction and improvement, report, 14007
 stratigraphy, Chinle and Moenkopi formations, 5715
 timber, potential for intensive management, 1999
 Naval Academy, Annapolis:
 catalog, 7366
 register, 2325
 Naval Aerospace Medical Institute:
 NAMI series, 2130-31, 14495-503
 reports, 1964-1968, annotated bibliography, 16055
 Naval architecture, *see* Shipbuilding.
 Naval art and science:
 naval operations at night, analyses of variety of visual problems encountered, 8574
 naval research logistics quarterly, 3173
 U.S.S.R. vs. U.S.A., changing strategic naval balance, 3984
 Naval aviation, *see* Aeronautics.
 Naval aviation news, 3172
 Naval education:
 naval air training schools, optimal weighting of course grades, 14500
 naval flight officer student prediction system, expansion, 14499
 naval training bulletin, 3178
 Navy training courses, 1247-49, 1252, 2341-47, 4827-30, 6130, 6133, 7374, 10241-242
 NROTC 2-year college contract program, 4835
 programmed instructional material, catalog, supplements, 1253, 8759
 rate training manuals, 10244, 10246-47, 11562, 16310, 16312-313, 17310-311
 training equipment and individual differences, effects of subject matter variables, study, supplementary report, 1256

- Naval education—Continued
training manuals and correspondence
courses, list, 13271
training publications for advancement,
list, 11563
- Naval Electronics Laboratory, report, 13306
- Naval establishments, *see* Armed Forces.
- Naval Facilities Engineering Command:
design manuals, 1327, 2326, 4818, 7367,
8740, 13208, 14722, 16291, 17298
- NAVFAC Technical Training Center
courses, 14723
- Naval history:
bibliography, 16307
Civil War naval ordnance, 10239
historic ship exhibits in United States,
8756
naval documents of American Revolution,
American theatre, Feb. 19–Apr. 17, 1776,
European theatre, Feb. 1–May 25, 1776,
American theatre, Apr. 18–May 8, 1776,
17307
United States Navy, highlights, 16308
- Naval Medical Field Research Laboratory,
Camp LeJeune, N.C., report, 14504–514,
16057–58
- Naval Observatory:
circulars, 13211
publications (series), 10214, 14724
- Naval Oceanographic Office:
annual report, 16296
catalog of publications, 11561
Geo-sort file, extracting information by
computer programming, 13215
H.O./B.C. chart, design and production,
13234
informal report IR series, 2327, 10215–
222, 13212–261, 14725, 16293
monthly summary, the Gulf Stream
(periodical), 3144
supplement, 10223
Omega and a NAVOCEANO test, status
report, 13242
press releases, 3310
publications series, 1238–46, 2328–38,
4819–23, 6113–29, 7369–73, 8745–54,
10224–237, 11561, 13262–265, 14726–
736, 16297–303, 17299–305
special publications SP series, 2339–40,
8755, 10238, 13266
technical reports, 4824, 13267–269
- Naval operations, *see* Naval art and science.
- Naval Overseas Transportation Service,
World War I history, 16305
- Naval personnel, *see* Navy.
- Naval Personnel Bureau:
career publication, 2586
training manuals and correspondence
courses, lists, 1251, 13271
- Naval Postgraduate School, Monterey, Calif.,
abstracts of dissertations, theses, and re-
search papers submitted by candidates for
degrees, 14737
- Naval Research Laboratory:
acoustic research tank facility, 10259
annual report, 1254, 14741
cyclotron, demineralized water system,
13274
hot cell equipment developed for remote
tension test specimen evaluations, NRL,
6144
Microwave Space Research Facility 60-ft.
X-band antenna, design and develop-
ment, 17314
NRL dynamic tear test, analysis of forces
and bending moments, 13289
progress, report, monthly, 3380
report series, 1257–70, 2349–59, 4833,
6135–51, 7379–89, 8760–64, 10248–70,
11564–571, 13273–13304, 14742–755,
16314–317, 17312–315
- SOLRAD 9 satellite, Solar Explorer B,
1968–17A program, 13283
unclassified effort, short report, 13294
- Naval research logistics quarterly, 3173
- Naval Research Office, ONR report DR series,
11572
- Naval research reviews (periodical), 3174
- Naval Reserve, officers, retired, register,
2345
- Naval Reserve Officers Training Corps,
N.R.O.T.C. 2-year college contract pro-
gram, 4835
- Naval reservist (periodical), 3175
- Naval service, *see* Navy.
- Naval Ship Systems Command:
reliability design handbook, 10271
technical news (periodical), 3176
- Naval ships, *see* Ships.
- Naval stores:
annual report, 10427
report, monthly, 3177
- Naval Submarine Medical Center:
memorandum reports, 16061–65
reports, 918–928, 5927–30, 7197–7201,
8573–81, 10046–47, 11371–374, 12998–
13004, 14515–518, 16066–69
- Naval supplies, *see* Military supplies.
- Naval training, *see* Naval education.
- Naval Training Device Center:
technical reports, 1255–56, 2348, 6134,
7378
training device—
developments (periodical), 3504
guide, 13305
- Naval vessels, *see* Ships—Warships.
- Navia, *see* Bromellacae.
- Navigable waters, *see* Navigation.
- Navigation:
aids—
Coast Guard list—
Great Lakes, 5282
Mississippi River system, 5283
identification decoder and display for
general-aviation aircraft, 17224
range design, 6535, 10636
aircraft, theory and practice, 4758
American practical navigator, tables,
16297
- Arkansas River—
conditions, Fort Smith reach, 607
lock and dam no. 7, hydraulic model in-
vestigation, 8186
Ozark Lock and Dam, hydraulic model,
investigation, 1828
Webbers Falls Lock and Dam, hydraulic
model investigation, 15668
- artificial islands and fixed structures on
outer continental shelf, rules and regu-
lations, 3589
- Columbia River estuary, improvements, hy-
draulic and salinity verification, model
studies, 5572, 16969
dictionary, 14730
information, obtaining and reporting,
oceanographic observers' manual, 17305
- Kaskaskia River, project, ill. 5573
- laws, equipment, Coast Guard approved
lists, 299
- line officers performing supply duties,
guide, 17308
- maneuvering board manual, 8754
- maps, Gulf Intracoastal Waterway, New
Orleans, La. to Port Arthur, Tex., etc.,
2180
- navigable waters—
Boston Harbor and its tributaries, con-
ference proceedings, 1896
code of Federal regulations, 6966, 11126
- Navy design manual, changes, 4818
- notice to mariners—
coastal and ocean regions of world, 3206
Great Lakes and tributary waters west
of Montreal, 3207
- Omega and NAVOCEANO test, status re-
port, 13242
- radio aids—
Atlantic and Mediterranean area,
change, 6129
Pacific and Indian Oceans area, 2337,
10237

Navigation—Continued
radio aids—continued
Robert S. Kerr Lock and Dam, hydraulic model investigation, 605
satellite system, aid to ocean surveying, 13239
space, approximation to statistics of mid-course velocity corrections, 16159
spacecraft optical navigation, analytic approximations for application on short data arcs, 1088
see also Air navigation—Commerce.
Navigator (periodical), 3179
NAVOCEANO, *see* Naval Oceanographic Office.
NAVTRADEVEN, *see* Naval Training Device Center.
Navy:
awards manual, 7391
air traffic controllers, air traffic trainee aptitude-test measures, comparative study, 7723
career planner, occupational handbook, manual for civilian guidance counselors, etc., 6131, 16311
civil engineer (periodical), 3180
civilian career opportunities, engineers and scientists, 2360
clinical evaluation of stannous fluoride, when used as constituent of prophylactic paste, topical solution, and dentifrice, 13003
dental administration, manual, change, 14739
enlisted personnel classification manuals, 4832, 10243
flight surgeon, who, what, why, where, when, 4617
historic ship exhibits in United States, 8756
hospital corpsmen, predicting academic performance, 16060
journal, civilian manpower management (periodical), 3023
junior nuclear qualified submarine officers, special pay, provide, hearing, 15417
lawyer, professional opportunities, 4454
leadership support manual, 1250
management review (periodical), 3181
marine climatic atlas of world, 11559
medicine, statistics, quarterly, 3466
messes ashore, manual, change, 4831
monitors of U.S. Navy, 1861-1937, 16306
naval air training schools, optimal weighting of course grades, 14500
naval flight officer student prediction system, expansion, 14499
naval service members, round trip transportation, provide, amend U.S. Code—hearings, 7949
report, 7929
naval shore facilities, definitive designs, 1236
1969 shipbuilding and conversions programs, 13270
officers—
classifications, manuals, 2343, 17309
retired—
register, 2345
to command U.S.S. Constitution (IX-21), authorize, report, 16794
our Navy in action, color prints, 10240
pontoon gear handbook, Navy Lightered (N.L.) equipment, P-series, 13209
procurement directives, 3182
publications, price list, 6170
rate training manuals, 10244, 10246-47, 11562, 17310-311, 16310, 16312-313
research, 45 years, 14741
retired naval personnel, reference guide to employment activities, 12958
special enlisted tours, guidebook, 8765
submarine in United States Navy, 4825

Navy—Continued
submarine officers, nuclear, special pay, amend U.S. Code—
hearings, 7948
law, 10682
reports, 7887, 9413
supply facilities, design manual, changes, 2326
training publications for advancement in rating, list, 11563
travel regulations, 3019
United States, historical account, 16308
USSR, propagandists and agitators, handbook, 7135
your Navy from viewpoint of nation's finest artists, lithographic prints, announcement and order form, 16320
Navy Department:
aircraft engine procurement, potential for savings by reduction, GAO report, 14324
Assistant Secretary—
financial management, nomination of Charles A. Bowsher, hearing, 5428
installations and logistics, nomination of Frank P. Sanders, hearing, 5429
manpower and reserves, nomination of James D. Little, hearing, 5428
research and development, nomination of Robert A. Froesch, hearing, 5428
control over repairs of electronic components and assemblies, GAO review, 7027
naval nuclear propulsion program, 1963, hearings, 10686
per diem payments to prospective crew members of ships under construction in New Orleans, La., 7031
public affairs, direction for commanding officers, etc., (periodical), 2771
RDT & E management guide, 14758
research, development, test, and evaluation, appropriations, 1970 hearings, 16809
safety review (periodical), 3406
Secretary—
letters sent to officers, 1798-1868, pamphlet to accompany microcopy, 16214
nomination of John H. Chafee, hearing, 4072
Under Secretary, nomination of John W. Warner, hearing, 5429
Navy Medical Neuropsychiatric Research Unit, San Diego, Calif., reports, 16059-60
Navy Supply Corps, newsletter, 3183
Navy training courses, *see* Naval education.
NBS, *see* National Bureau of Standards.
NCDC, *see* National Communicable Disease Center, Atlanta, Ga.
NCG technical report, 7689
NDEA, *see* Education.
Neal, James T., playa surface morphology, miscellaneous, investigations, 1534
Near East, *see* East (Near East).
Near Midair Collision Study Group, report, 16984
Nearetic region, Walshiidae, notes and new taxa (Lepidoptera: Gelechioidea), 13429
Nebraska:
agricultural conservation program, 6366
Agricultural Stabilization and Conservation Service, annual report, 8960
census of business, 1967, retail trade, area statistics, 13743
climatological data, 2662
electric rate book, 646
Federal outlays, report of Federal Government's impact by State and county, 9559, 15615
Federal waterfowl production areas, guide, 1433
irrigation council, annual meeting, proceedings, 4908, 10348
mineral industry, minerals yearbook chapter, 2155
National Park Service, Nebraska Governor's book, 14709

Nebraska—Continued
 postal map, 8774
 precipitation data, hourly, 2962
 Upper Missouri River compact, congressional consent—
 law, 15200
 reports, 10862, 12169
 uranium reconnaissance, preliminary, 13710
 water resources data, 9915, 14367
 Nebulae, *see* Crab nebula.
 Necrosis, postoperative hepatic necrosis and halothane anesthesia study of possible association, 7344
 Nee, Peter M., relief, 9283, 12107, 13967
 Needham, James J., nomination, hearing, 10889
 Needle blight, *see* Leaf cast.
 Needle miner, *see* Lodgepole needle miner.
 Needles (sewing, etc.):
 classification definitions, 11574
 Needlework, industry in Puerto Rico, data pertinent to review of minimum wage rates, 11774
 Neeley, Braxtel L., jr., Tickfaw River at Starns Bridge, near Magnolia, La., 8361
 Negotiated contracts, *see* Government contracts.
 Negotiation:
 international—
 exchanges of scholars with Soviet Union, advantages and dilemmas, 16885
 nonproliferation of nuclear weapons treaty, 5105
 Peking's approach, selected writings, 6786
 Soviet approach, selected writings, 5448
 Vietnam and Paris negotiations—
 postscript, 8066
 report, 469-470
 Negroes:
 American, and higher education (remarks), 1814
 black capitalism in the ghetto, 4194
 black revolution and economic future in United States (address), 11133
 colleges and universities, directory, 4462
 education, employment, and Negro equality, seminar on manpower, 883
 finding jobs for, ideas for management, 11331
 Negro community, small business and economic development (statement), 12648
 population—
 characteristics, 239
 selected areas of U.S. in which special censuses have been taken, 245
 rural and non-metropolitan areas of Alabama, equal economic opportunities, report, 270
 we hold these truths, bibliography, 13515
 we the black people of United States general information, 7755
 Nehmer, Stanley, remarks, Sept. 16, 1969, 13807, 15166, 16710
 Nehrt, Roy C., preprimary enrollment of children under 6, 10987
 Neighborhood Youth Corps:
 Detroit, Mich., need for improvements in certain program operations, GAO report, 1946
 effectiveness and administrative efficiency GAO report—
 Carroll, Chariton, Lafayette, Ray, and Saline Counties, Mo., 11213
 Detroit, Mich., program, 15780
 Gary, Ind., program, 14310
 Gila River Indian Reservation and Pinal County, Ariz., program, 14311
 Grand Rapids, Mich., program, 11214
 Kansas City, Mo., program, 14312
 Los Angeles County, Calif., effectiveness and administrative efficiency, GAO report, 15781
 Maricopa County, with emphasis on Phoenix, Ariz., program, 14313
 Minnesota rural areas, 17064

Neighborhood Youth Corps—Continued
 hope and help for youth, 10011
 Los Angeles County, Calif., program administration by Labor Department, GAO review, 1950
 making the scene in jobs, school, training, 4464
 Neighborhoods:
 neighborhood facilities program, 14392
 residents in comprehensive health services programs, introductory guide to training, 9636
 Neihof, R. A.:
 biophysical studies of microbial cell walls, 10252
 preparation of isolated cell walls, 1257
 Nejad, N. S.:
 cardiac output and regional blood flow in conscious rats exposed to acute hypoxia, 2131
 effect of blood pH and CO₂ tension on performance of heart-lung preparation, 2130
 NELIAC program, *see* Computer programs/programming.
 Nelms, Walter P., jr., experimental and theoretical investigation of symmetrical and cambered delta wing configuration at Mach numbers from 2.0 to 10.7, 13086
 Nelson, Nancy B., air traffic and airport congestion, selected references, 8194
 Nelson, Alice F., foreign agriculture, 2901
 Nelson, Charles B., simulation of package transfer concepts for Saturn I orbital workshop, 10107
 Nelson, Daniel J., symposium on radioecology, 7675
 Nelson, David A., nomination, hearing, 5464
 Nelson, Dawn D., school enrollment, Oct. 1968, and 1967, 15114
 Nelson, Earl E., survival of *Poria weirii* in conifer, alder, and mixed conifer-alder stands, 1915
 Nelson, James R., all weather landing development tests, 16487
 Nelson, Morlan W., water supply outlook and Federal-State-private cooperative snow surveys for Idaho, 3585
 Nelson, Ralph M., jr., some factors affecting moisture timelags of woody materials, 11185
 Nelson, W. H., geology of part of Alder Creek mining district, Custer County, Idaho, 729
 Nelson, William R., biological characteristics of sauger population in Lewis and Clark Lake, 7475
 Nematoides, registered, annotated index of their uses in U.S., 16528
 Nematodes, *see* Nematoid worms.
 Nematoid worms:
 golden nematode—
 handbook, survey, laboratory, control, and quarantine procedures, 30
 of potatoes and tomatoes, description, control, etc., 6396
 maturity and spawning of skipjack tuna in Atlantic Ocean, with comments on nematode infestation of ovaries, 5307
 nematoda, parasite, subject catalogue, 13543
 Nemeš, Jaroslav, international bibliography of medicolegal serials, 13180
 Neon:
 gas, slightly ionized, experimental observation of oscillations described by continuity equations, 2250
 nonequilibrium cesium plasmas probed by multifrequency helium-neon laser, refractive index, particle density correlation, 11498
 Neoplasms, *see* Tumors
 Nepal:
 accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 3185

- Nepal—Continued
climate, annotated bibliography, 4224
foreign economic trends and their implications for United States, 5796
- Nepheline syenite, minerals yearbook chapter, 16075
- Nephritis, *see* Pyelonephritis.
- Neptune (planet):
direct trajectories to Jupiter, Saturn, Uranus, and Neptune, general discussions, contour maps, planetary flight handbook, 13058
Jupiter swingby missions to Saturn, Uranus, and Neptune, etc., general discussion, contour charts, planetary flight handbook, 11426
- Neptunium isotopes, NP-237 and uranium-236, effect on value of uranium used as feed for thermal power reactors, 189
- Nerves:
cortical neurons, functional and morphological state when exposed to super-high frequency electromagnetic fields, USSR study, 8512
effects of right and left vagal cooling on heart rate, 5084
nerve cell, standard neuron, mathematical model, USSR study, 15989
nerves nets, USSR studies, 11322
neuron sensitivity developments, USSR study, 2097
proteolytic activity of nerve tissue, USSR study, 8496
spinal motoneurons, action of actinomycin 2703 on RNA metabolism of, under conditions of hyperfunction, histochemical data, USSR study, 843
- Nervous system:
behavioral and circulatory responses to x-irradiation to whole body and trunk only, 3710
central, effect of—
LSD, USSR survey, 15905
spaceflight factors, USSR study, 12927
some distinctions of higher nervous activity in Black Sea dolphin (*Tursiops truncatus*), USSR study, 15927
- NESC, *see* National Environmental Satellite Center.
- Nesson, John W., taste thresholds to bitter compounds during submarine patrol, 924
- Netherlands:
agricultural products, supply and demand, imports, and exports, forecast for 1970 and 1975, summary, 8158
capsule facts for Armed Forces, 1560
double taxation, convention, text, etc., 15354
economic trends and their implications for United States, 7116, 17115
foreign trade regulations, 10658
income tax convention, text, etc., 15354
mineral industry, minerals yearbook chapter, 17186
plant quarantine import requirements, 14978
selling in Netherlands, 3898
- Netherlands Antilles, background notes, 11696
- Netherlands Carillon, Arlington, Va., general information, 4807
- Nettertrom, Ralph W., rigging cargo gear, 16007
- Networks:
information networks and commutation, USSR study, 12910
meteorological rocket network firings, data report (periodical), 2747
radar and surface mesonetwork data analysis of structure and movement of severe thunderstorms of Apr. 3, 1964, 6911
- Netzeband, F. F., mineral industry of Texas, 4629
- Neubauer, Werner G., experimental examination, by means of pulses, of circumferential waves on aluminum cylinders in water, 13281
- Nengebauer, G., two-micron sky survey, preliminary catalog, 16150
- Neumeier, L. A., effect of varied extrusion temperature on properties of zinc-copper-titanium alloy, 4649
- Neurology:
neurologic sciences, bibliography, 6333
neurological research, supported by National Institute of Neurological Diseases and Stroke, summaries, 6062
- Neuromuscular system, small perturbation dynamics in tracking tasks, 2192
- Neurons, *see* Nerves.
- Neurosurgery, *see* Surgery.
- Neurotropic viral diseases surveillance, 11621
- Neuse River, flood plain information, 12469
- Neutron activation and analysis, *see* Radioactivation analysis.
- Neutron capture cross sections, gold sphere transmission experiments at 24-keV neutron energy using spin-dependent s-wave statistics, analysis, 8651
- Neutron detector, *see* Detectors.
- Neutron scattering, *see* Scattering.
- Neutrons:
cross sections and technology, conference proceedings, errata, 1178
energy and angular distribution of neutrons and gamma rays, Operation Henre, 16619
interpreting neutron probe readings in frozen soils, 17022
irradiation, A533 pressure vessel steel, initial assessments of notch ductility behavior, 6145
neutron and photon attenuation through lithium hydride and tungsten spherical media, transport study, 4719
Operation Henre, distribution of radiation from 14 MeV neutron source in and near structures, 9063
pulsed neutron source for reflected solution reactor up to \$50 shutdown, analysis and experiments, 17235
sources, USSR study, 12924
use of LiF detectors in neutron flux integrator, feasibility study, 13693
see also Thermal neutrons.
- Nevada:
ASCS farm programs, 6367
Carson Valley water budget, 8351
census of business, 1967—
retail trade, area statistics, 9105
selected services, area statistics, 13757
wholesale trade, area statistics, 15104
climatological data, 2662
copper porphyry mill tailing, chemical and vegetative stabilization, 10062
county business patterns, 16661
electric rate book, 14218
Federal outlays, report of Federal Government's Impact by State and county, 9560, 9609
mineral industry, minerals yearbook chapter, 2156
national forest recreation guide, 4300
postal map—
northern section, 11595
southern section, 11594
precipitation data, hourly, 2962
snow survey measurements, 1910-67, 6239
southern early Pennsylvanian ammonoids, 7055
test site, Thirsty Canyon Tuff, area 20, Pahute Mesa, U20u satellite holes, geologic data and studies of orientation of joints, 9896
Valley of Fire State Park land conveyance, report, 13991
water resources data, 1973, 8378, 12791

- Nevada—Continued
water supply—
fall summary, 16422
outlook and snow surveys, 3587
- Nevada County, Ark., community profile, 15585
- Nevel, Donald E., crowds on ice, 3748
- Nevis, see Leeward Islands.
- New Bedford Storage Warehouse Co., relief, 6600, 9396, 12088
- New Bern, N.C.:
flood plain information, 12469
floods, how to avoid damage, 12504
- New Blaine quadrangle, Ark., geology, 4363
- New Brunswick Laboratory, research progress report, 13698
- New careers, jobs with a future and a profession, 5884
- New Castle County, Del.:
community profile, 15586
flood plain information, 9670
- New conservation era, 1964-68, 5756
- New Crops Research Branch, plant material introduced, 6363, 7575, 11798
- New directions for the 1970's, toward a strategy of Inter-American development:
hearings, 10783
report, 12193
- New directions in helping people help themselves, SRS, 13433
- New education, promise and performance (address), 14140
- New England:
climatological data, 2662
fisheries, annual summary, 3916
precipitation data, hourly, 2962
truck inventory and use survey, 1617
yellow birch, rates of value increase, 15767
- New England Regional Commission:
annual report, 8766
Federal Cochairman, nomination of Stewart Lamprey, hearing, 8091
press releases, 3311
- New England River Basins Commission, report, 5332
- New era (periodical), 3186
- New Florencia:
case study for 1970 censuses of population and housing, 5231, 6504-6, 7750-51, 12018
sampling for 1970 censuses of population and housing, case study, 5231
- New frontier for monetarists, 15727
- New Guinea:
climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
graphs, 1842
maps, 4221
sailing directions, change, 6122
- New Hampshire:
Agricultural Stabilization and Conservation Service, annual report, 8961
census of business, 1967—
retail trade, area statistics, 9106
selected services, area statistics, 16648
wholesale trade, area statistics, 15105
county business patterns, 16662
electric rate book, 4267
Federal outlays, report of Federal Government's impact by State and county, 9561, 9610
mineral industry, minerals yearbook chapter, 5941, 17187
Vermont interstate school compact—
law, 10683
reports, 7935, 8036
- New Hanover County, N.C., Agricultural Stabilization and Conservation Service, annual report, 13575
- New Haven, Conn., area wage survey, 10018
- New Jersey:
Agricultural Stabilization and Conservation Service, annual reports, 11833-834
- New Jersey—Continued
census of business, 1967, retail trade, area statistics, 13744
climatological data, 2662
Cretaceous-Tertiary boundary, 5704
egg-producing farms, commercial, costs and returns, 15619
electric rate book, 15723
employment statistics, 1958-66, compilation, 12979
Federal outlays, report of Federal Government's impact by State and county, 9562, 9611
Interstate Air Quality Control Region, report for consultation, 13368
landings, fish and shellfish, 3187, 7809
mineral industry, minerals yearbook chapter, 960
Pennsylvania-New Jersey-Maryland interconnection, power interruption, report, 649
precipitation data, hourly, 2962
preliminary reconnaissance for uranium, 7701
radium cases, epidemiological follow-up, progress report, 3802
shortleaf pine recommended for local seed sources, 17049
water resources—
data, 14368
development by Army Corps of Engineers, 12553
- The New Left, 9404, 9476
- A New Life, a new world, today's Women's Army Corps, 138
- New Mexico:
Agricultural Stabilization and Conservation Service, annual report, 8962
apples, marketing order authority, extend, report, 6871
census of business, 1967—
retail trade, area statistics, 9107
selected services, area statistics, 15094
wholesale trade, area statistics, 15106
climatological data, 2662
county business patterns, 16663
Douglas-fir beetle brood densities and infestation trends, study area, 5677
electric rate books, 1876, 14219
Federal outlays, report of Federal Government's impact by State and county, 9563, 9612
Federal-State partnership for economic growth, Four Corners Regional Commission, 9870
Great Basin tent caterpillar, life history, parasites, disease, and defoliation, 695
Indian lands, longer term leases for lands located outside Indian reservations, report, 14000
Indians—
general information, 789
vital statistics, 10314
mineral industry, minerals yearbook chapter, 2157
northern—
Precambrian clastic and pelitic rocks, gold investigations, 14332
soil temperatures under forest and grassland cover types, 5670
USDA at work, 63
precipitation data, hourly, 2962
southeastern, Carlisle district, 5th ore zone, evaporite geology, 730
spruce budworm, tolerance to malathion, 4321
Upper Rio Puerco soils, production, capabilities, 682
water resources data, 9916, 12792, 14369
water supply outlook and snow surveys, 3584
west-central, semidesert range, detrimental effect of Russian thistle, 1917
- New Orleans, La.:
area wage survey, 11341
maritime problems (remarks), 5614

New Orleans, La.—Continued
Mississippi River and tributaries and other watersheds in district, stages and discharge, 12550
passenger lists of vessels arriving—
1820-1902, pamphlet to accompany microcopy, 14658
quarterly abstracts, pamphlet to accompany microcopy, 16218
per diem payments to prospective crew members of ships under construction in, Navy Dept., GAO Report, 7031
solid waste collection and disposal, management demonstration, report, 17342
New Rambler Mine, Albany and Carbon Counties, Wyo., platinum and associated elements in vicinity, 1962
New York Bight, waste disposal, preliminary investigation, 4890
New York Central RR., accident report, 6111, 9794, 11085
New York City :
accounts and deposits in all commercial banks in district, summary, 9768
aid to families with dependent children, monitoring of special review, conducted by Health Education, and Welfare Dept., and New York State, Dept. of Social Services, GAO report, 16827, 17056
architecture, survey, 16274
Citrus Associates of Cotton Exchange, futures trading and open contracts in frozen concentrated orange juice, 6552
early childhood project, preschool program in compensatory education, 6891
economy, charting, 14468
elementary program in compensatory education—
after school study centers, 6868
homeworker helper program, 6878
more effective schools, 6871
employment—
and unemployment, facts, 16029
income, and living standards, changing patterns, 12981
unemployment, and living conditions, facts, 14474
fresh fruit and vegetable prices, 10501
high-speed rail line, grade crossings, eliminate, hearings, 13939
job situation, facts, 14475-476
job trends, facts, 14477
large commercial banks, condition report, weekly, 3596
Mercantile Exchange, futures trading and open contracts in potatoes, 2930
multifamily housing construction, cost and time associated with, 14396
national parks, general information, 6079
Produce Exchange, future trading and open contracts in cottonseed oil and hides, 2930
railroad accident report, 6111
secondary program in compensatory education—
college bound program, 6899
junior high summer institutes, 6900
Wool Associates of Cotton Exchange, futures trading and open contracts in cotton, wool and wool tops, 2929
New York, New Haven and Hartford RR., accident, report, 11083
New York State :
Agricultural Stabilization and Conservation Service, annual summaries, 8963, 10470
census of business, 1967, retail trade, area statistics, 13745
climatological data, 2662
economic development planning, status report on role of economic research, 12394
electric rate book, 9787

New York State—Continued
employment statistics, 1958-66, compilation, 12979
Federal outlays, report of Federal Government's impact by State and county, 9564, 9613
forest taxation and preservation of rural values in New York, 6999
Interstate Air Quality Control Region, report for consultation, 13368
landings, fish and shellfish, 3195, 16711
mineral industry, minerals yearbook chapter, 2158
pollution of interstate waters of Lake Champlain and its tributary basin, conference proceedings, 14240
precipitation data, hourly, 2962
preliminary reconnaissance for uranium, 7701
professional, administrative, and technical pay, 11355
Social Services Dept., monitoring of special review of aid to families with dependent children in New York City, GAO report, 16827, 17056
timber resources, 17029
water pollution, Lake Erie and its tributaries, etc., conference proceedings, 5656, 9836
water resources development by Army Corps of Engineers, 14154
New Zealand :
Anzus pact, review of U.S. military commitments abroad, report of subcommittee, 1697
background notes, 1436
climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
graphs, 1542
maps, 4221
economic trends and their implications for United States, 5788, 14420
establishing business in, 5292
labor conditions and labor organizations, 7189
lights and fog signals, list, changes, 6127, 13264, 17301
mineral industry, minerals yearbook chapter, 961
sailing directions, change, 1243
Newark, N.J. :
area wage survey, 10025
riots, looting, and burning, subversive influences, hearings, 426
Newborn, see Infants.
Newburgh Lock, Ohio River, valve position effect in sidewall port filling system, 1827
Newcastle disease, poultry, how to control it, 42
Newcomb, R. C., effect of tectonic structure on occurrence of ground water in basalt of Columbia River Group of The Dalles area, Oreg., and Wash., 11243
Newell, Fred D., human transfer characteristics in flight and ground simulation for roll tracking task, 4734
Newfoundland :
Grand Banks region, oceanography, 13801
sailing directions, change, 1238
Newman, Jerry O., house construction, how to reduce costs, 10483
Newman, Morris, mathematical sciences, Journal of research, 3025
Newman, Nathan, considerations in computing useful frequency range of piezoelectric accelerometers, 11525
Newport News, Va., area wage survey, 2110
News digest :
Federal Power Commission, 3196
Securities and Exchange Commission, 3197
News for farmer cooperatives, 3198
News from the Center, 910, 3200

- News letters :
 consumer relations, 2702
 equal opportunity in Federal employment, 2802
 Federal Library Committee, 2894
 Head Start Project, 2954
 HEW consumer newsletter, 9941
 Job Corps staff, 3017
 LEEP [Law enforcement education program], 10007
 medical news letter, Medicine and Surgery Bureau, 3109
 medicare, 3110
 Navy Supply Corps, 3183
 NBS publications newsletter, 3184
 rural areas development, 3402
 State Department, 2761
 State Technical Services Office, 3459
 USDA employee, 3552
 News releases, see names of departments, etc., issuing releases.
 News reporters, see Reporters and reporting.
 News summary, Federal Trade Commission, 2885
 Newsletters, see News letters.
 Newsom, Herschel D., nomination, hearing, 4077
 Newspapermen, employment outlook, 4526
 Newspapers :
 Armed Forces news style guide, 11926
 Army, personalize for success, pamphlet, 16590
 combinations and arrangements necessary for survival, exempt from antitrust laws, hearings, 1704
 failing, exempt from antitrust laws certain combinations and arrangements necessary for survival, hearings, 486, 5456
 Newton, George D. jr., firearms and violence in American life, 13321
 Newton, John R., report on sea water desalination analytic procedures, 14404
 Newton County, Ark., community profile, 15587
 Newton-Raphson method, see Variables (mathematics).
 Newtonian equations, see Equations.
 Newtonian fluid, see Fluids.
 Next steps in international monetary reform, 346
 NGB, see National Guard Bureau.
 Nguyen-Hy-Quang, Vietnamese familiarization course, 13491
 Nguyen Thi Huong (Linh), and child, relief, 8005, 10697, 12089
 Nguyen, Van Hue, relief, 4033, 6609, 9233
 NHSB, see National Highway Safety Bureau.
 Niagara River :
 additional temporary diversions for power production purposes, agreement with Canada, 7995, 7998, 11725
 uses of waters, agreement with Canada, 11725
 Nicaragua :
 background notes, 8876
 capsule facts for Armed Forces, 3720
 economic trends and their implications for United States, 2042
 investment guaranties, agreement, 2498
 Nicholas County, W. Va., coal, carbonizing properties, 5958
 Nichols, Clyde, relief, 7873
 Nichols, J. J., Saturn V, S-IVB panel flutter qualification test, final report, 17222
 Nichols, Lester D. :
 analytical and experimental studies of MHD generator cathodes emitting in spot mode, 16169
 comparison of Brayton & Rankine cycle magnetogasdynamic space-power generation systems, 6022
 design and preliminary operation of Lewis magnetohydrodynamic generator facility, 1090
 Nichols, Stephen, satellite turnstile antennas, 17312
 Nichols, Thomas C., jr., engineering geology of Paducah East quadrangle in Kentucky, 4349
 Nickel :
 alloys—
 evaluation of alloy 713C and NASA TAZ-8A produced by extrusion of prealloyed powders, 10150
 in high velocity gas stream, oxidation and thermal fatigue cracking, 14624
 base IN 100 superalloy, evaluation of 3 oxidation-resistant alloy claddings, 17232
 collector, and chloride vapor deposited tungsten emitter (110) thermionic converter with, characteristics, 14587
 dispersion-strengthened, produced from ultrafine comminuted powders, 16172
 effects on performance of N on P silicon solar cells, 13136
 elastic scattering of 21 MeV protons, 1138
 mineral industry survey, monthly, 3202
 minerals yearbook chapter, 16091
 nickel base alloy, WAZ-20, with improved strength in 2000° to 2200°F range, 13127
 nickel-blade superalloy sheet, sensitivity of the creep-rupture properties, etc., 4679
 nickel-cadmium batteries by farad capacitance measurements, determining state of charge, 7680
 oxidation effect on high-temperature deformation of nickel, proposed model, 10153
 radiation-induced reduction of ammoniacal nickel (II) sulfate to metallic nickel, 10132
 solubility in liquid sodium of high oxide content, 14751
 surface (111), LEED study of adhesion of various materials, 10149
 Watts nickel electroplating bath, metabenzendisulfonic acid as stress-reducing additive, evaluation, 16152
 Nickel steel, see Steel.
 Nickel-titanium alloy, see Nitinol.
 Nickerson, J. T. R., treatment of poultry with ionizing radiations to destroy salmonellae, final report, 7687
 Nicolai, Leland, convected balanced arc, experimental and theoretical analysis, 4681
 Nicolson, Dan H., revision of genus *Aglaonema* (Araceae), 13415
 Nicotiana rustica, see Tobacco.
 Nicotine, from green nicotiana rustica, cane milling, 6359
 NIDR, see National Institute of Dental Research.
 Niebanck, Charles F., prediction of rotor instability at high forward speeds, torsional divergence, 9054
 Niederfrank, E. J. :
 extension work in public affairs, 16554
 working with the disadvantaged, 55
 Niedra, Janis M., transformer of closely spaced pulsed waveforms having nonzero average value, 16200
 Niemuth, W. E., proceedings of national topical meeting on fast reactors systems, materials, and components, 5145
 Niessen, Frank R., simultaneous usage of attitude control for VTOL maneuvering determined by in-flight simulation, 13119
 Niger, background notes, 16461
 Nigeria :
 background notes, 11698
 civilian victims of civil war, report of Special Coordinator for Nigerian relief, 7953
 Dahomey boundary, study, 17407
 economic trends and their implications for United States, 7108, 15885
 economy, basic data, 313

Nigeria—Continued
foreign trade regulations, 7803
mineral industry, minerals yearbook chapter, 5942
Nigerian-Biafran relief situation, hearing, 467
special factfinding mission, report, 7954
surface water resources of Yobe River system, 1963-68, 15810
Nigh, June, activities of Foreign Affairs Committee, 90th Congress, 401
Nightwear, knit, current industrial reports, 2733
NIIH, *see* National Institutes of Health.
Niigata, Japan, damage due to Niigata earthquake, report, 15070
Nile River and Valley, agricultural development and expansion in Nile Basin, 574
Nimbus satellites, *see* Satellites.
NIMH, *see* National Institute of Mental Health.
NINDB, *see* National Institute of Neurological Diseases and Blindness.
NINDS, *see* National Institute of Neurological Disease and Stroke.
Ninepipe National Wildlife Refuge, general information, 13459
Nineteenth-century gallery of distinguished Americans, exhibition catalog, 6097
Niobium:
absorption rate sticking probabilities for oxygen on columbium and dilute columbium-zirconium alloys, 1105, 4703
Cb-12r, pumped sodium loop, 999
coated molybdenum and columbium alloys in high-temperature supersonic air-streams, evaluation, 1100
columbium alloys—
development, 2178
statistical analysis of high temperature creep-rate data, 16175
columbium-hafnium system, effect of microstructure on superconductivity, 10059
minerals yearbook chapter, 16074
pumped helium tests of 51-centimeter bore niobium-tin magnet, 10112
single crystal, nonlinear flux flow, 10126
Niobium carbide, electrical resistivity of hyperstoichiometric columbium carbide materials at elevated temperatures, 14553
Niobrara formation, east flank of Black Hills, S. Dak., phosphate nodules at base of, stratigraphic significance and petrology, 4365
Niobrara River:
Upper, compact, congressional consent—
law, 15200
reports, 10862, 12169
Nitinol:
certain physical properties and applications, 1033
characterization study, 16140
Nitrates, nitrate ion, dilute solution reactions, as applied to water reclamation, 14245
Nitridation, nitridation-oxidation protection of chromium alloys by use of silicide, aluminate, and boron coating, exploratory study, 11448
Nitrides, *see* Titanium nitride.
Nitrogen:
application of pressurized liquid nitrogen inside parametric-amplifier structures for input-noise-temperature improvement, 17250
composting ponderosa pine bark, effects of nitrogen addition and aeration, 5678
content of turnip, effects of prolonged reduced pressure on, 3705
deficiency, in pumice soils of central Oregon, caused by thinning slash, 680
demand in U.S., statistical analysis, 14529
elastic scattering of 21 MeV protons, 1138
enrichment of 2 forest ecosystems by red alder, 12714

Nitrogen—Continued
fertilization, influence on pasture productivity of crested wheatgrass, 6401
fertilizer—
growth response of 35-year-old, site V Douglas fir, 4317
supply, 6365
gels, preparation and characterization, 10178
laser power density and some design considerations, 13280
metabolism in *Chlorella pyrenoidosa*, 16574
minerals yearbook chapter, 14546
nitrogen and helium as factors affecting decompression stress severity, 98
nitrogen-refrigerated and mechanically refrigerated trailers, effects of transit temperatures and modified atmospheres on market quality of lettuce, 3647
thermodynamic properties, and real-gas effects in critical flow thru nozzles, 4695
errata, 16149
Nitrogen oxides, and acid gases, removal from spacecabin atmospheres, 13049
Nitrogen tetroxide:
and hydrazine combustion, dynamic response to transverse gas flow, 5992
Nitrogen tetroxide-hydrazine combustors, performance and stability characteristics, 1055
Nitroglycerin, desensitized, factors affecting detonation velocities in simulated underground fractures, 13023
Nitschke, Violet, relief, 13895
Nixon, Richard M., portrait, 11929
see also President of United States.
Nixon, Roy W., growing dates in United States, 5030
NLRB, *see* National Labor Relations Board.
NMB, *see* National Mediation Board.
Noakes, Edward H., designing public transportation for use by the handicapped, 10282
Nobel, Joel J., portable clinical suction device for use in hyperbaric chambers, 16064
Noble, Lloyd W., fifty years of research on pink bollworm in United States, 6374
Noble gases, determine if correlation exists between metal fatigue life and capability of metal to absorb or retain inert gas, study, 15057
Noctilucous clouds, *see* Clouds.
NODC, *see* National Oceanographic Data Center.
Nogales, Sonora, Mexico, despatches from U.S. consuls, pamphlet accompanying microcopy, 10167
Noise:
abatement
landing approaches—
flight investigation of systems developed for reducing pilot workload and improving tracking accuracy, 17202
operational limitation in flying, 17243
technique for calculating optimum take-off and climbout trajectories for, 11450
acoustic impedance data, reduction by aid of PDP-8 FORTRAN program, 8764
aircraft—
abatement program, Federal Aviation Administration, 12582
airport noise problem and Federal Government policy, 12579
large subsonic jets, progress of NASA research relating to noise alleviation, 2210
takeoff jet noise limits, consideration, influence of high-turbine-inlet-temperature engines in methane-fueled SST, 2260

Noise—Continued

- application of pressurized liquid nitrogen inside parametric-amplifier structures for input-noise-temperature improvement, 17250
- attenuation—
 - predicting, in acoustically treated ducts for turbofan engines, studies, 14570
 - provided by flight helmets, manikin measurements, 14503
- cockpit noise intensity—
 - eleven twin-engine light aircraft, 19090
 - fifteen single-engine light aircraft, 7727
- combination effects of tone and duration parameters on perceived noisiness, 5981
- error analysis of input-noise-temperature measurements of low-noise amplifiers, 4727
- helicopter—
 - blade slap, review and theoretical study, 1030
 - rotor noise computer program, description, 6454
 - rotor, studies, 6453
- in axisymmetric convergent electron beams, 10131, 17217
- intelligibility of helium-speech as function of speech-to-noise ratio, 7200
- jet temperature effect on jet and pure tone noise radiation, 17211
- measuring machine and equipment noise, USSR study, 2069
- noise and modulation, analytic function models, 13140
- noisy phase reference, optimum design of communication links with, 2230
- perception of pitch in white noise mask, 7197
- power plant acoustics, Army technical manual, 3777, 7666
- reactor-noise analysis in time domain, 9071
- rotational and vortex noise of lifting rotors in hover and forward flight, theory for predicting, 10079
- scintillation range noise and related phenomena in water wave profiling with microwave radar, 2349
- sound without value, report, S207
- theoretical studies of compressor noise, 8589
- see also* Sonic boom—Sound.
- Noise suppressors:
 - acoustical absorption properties of wood-base panel materials, 15761
 - liquid rocket acoustic-mode-instability studies at nominal thrust of 20,000 pounds, interim summary, 2262
- Nolan, John S., remarks, Oct. 6, 1969, 17429
- Nomenclature, *see also* subjects.
- Nominations:
 - Academy of Medical Sciences, USSR, roster of nominees for membership, 15903
 - Air Force Reserve general officers—
 - hearing, 14016
 - report, 16847
 - see also* names of persons.
- Nomographs, *see* Nomography (mathematics).
- Nomography (mathematics):
 - general nomograph for normal and skewed frequency distributions, climatological and other applications, 3762
 - nomograms correlating dose of MMH with blood levels, 16572
- Nonagricultural employment, *see* Employment.
- Noucitzens, *see* Aliens.
- Noncommissioned officers, *see* Air Force.
- Non-discrimination, *see* Race problems.
- Nonenzymatic browning in model systems containing sucrose, 92
- Nonequilibrium gas dynamics, 14583
- Nonferrous castings, *see* Castings.
- Nonferrous metals, *see* Metals.

- Nongonococcal urethritis, *see* Urethritis.
- Nonlinear decay of disturbance in unbounded viscous fluid, 2247
- Nonlinear equations, *see* Equations.
- Nonlinear model for evaluation of cotton processed for specific end uses, 3673
- Nonmetallic materials, *see* Nonmetals.
- Nonmetals:
 - article shaping or treating, processes, classification definitions, 11580
 - industries, technologic trends, minerals yearbook chapter, 987
 - minor, minerals yearbook chapter, 970, 14544
 - nonmetallic crude materials, Federal item identification guides for supply cataloging, supplements, 2848
 - nonmetallic fabricated materials, Federal item identification guides for supply cataloging, supplements, 2848
 - structural shapes, nonmetallic, Federal item identification guide, 15517
- Nonprofit organizations:
 - financial assistance for sponsors of low and moderate income housing, 5741
 - medical research and education activities of nonprofit research institutes, 4785
 - nonprofit corporations, standards for granting Federal charters, 15469
 - nonprofit sponsors of housing for lower income families, 14389
 - priority in payment of adjudicated claims under existing programs, amend War claims act—
 - hearing, 5378
 - report, 6683
 - private foundations and organizations engaging in improper transactions with Government officials, deny tax exempt status, hearing, 10894
 - scientific activities, 16281
 - scientific institutes—
 - determining information needs, USSR study, 2050
 - experiment with economic material incentives USSR study, 11320
 - scientific-research institutes and their work, USSR study, 15956
 - tax-exempt foundations—
 - and charitable trusts, their impact on our economy, 13942
 - their impact on small business, hearings, appendix, 1711
 - tax exempt, testimony at public hearings, summary, 3777
 - tax reform hearings dealing with tax-exempt organizations, summary of problems, 7990
- Nonproliferation treaty, hearings, 5444
- Nontariff barriers to movement of tobacco in free world countries, 9841
- Non-urban patterns of land utilization 1963–68, bibliographies, 1158
- Nonwhite population, educational attainment of women, fact sheet, 2543
- Nor Kong Wan, *see* Kong Wan Nor.
- Norepinephrine, in rat heart, effect of monoamine oxidase and diamine oxidase inhibitors, 11903
- Norfolk, Ark., railroad accident, report, 9790
- Norfolk, Va., area wage survey, 2110
- Norfolk Island, telecommunication facility, to study ionospheric propagation in relation to long range radio paths, agreement with Australia, 8889, 16472
- Norfolk and Western Ry., accident, report, 15725
- Normal mode theory, *see* Vibration.
- Normal probability function, terrain effects on antenna radiation patterns, analysis of scattered fields, 11026
- Norris, Eleanor L., national assessment, where is it now?, 16960
- Norris, Stanley E., hydrogeology of Scioto River Valley near Piketon, south-central Ohio, 9933

Norris Dam Reservation, wildlife and forestry attractions, 11749
 Norris Reservoir, fertilizer effects on food chain organisms and fish production in, 1473
 North America:
 Atlantic Coast—
 oyster mortalities, 1669
 surface water temperature and density, 296
 tidal current tables, 15153
 climatological mean probability of penetrable optical path for high intensity, high contrast optical targets, maps, 4222
 east coast—
 lights and fog signals, list, changes, 2334, 8750, 16301
 tide tables, 9195
 geology—
 abstracts, 2546
 1965, bibliography, 5698
 larval taxonomy of Troginae, 2313
 Malacosoma Hübner (Lepidoptera: Lasiocampidae), revision of genus, systematics, biology, immatures, and parasites, 2312
 ozonesonde observations, 1532
 Pacific Coast, tidal current tables, 13798
 revision of Peoriline and Auerastinae (auctorum) of American North of Mexico, 1203
 tectonics, discussion to accompany tectonic map of North America, 9903
 west coast—
 lights and fog signals, list, changes, 6127, 13264, 17301
 tide tables, high and low water predictions, 6532
 North American Conference on Labor Statistics, proceedings, 900, 12978
 North America fauna, 13451, 14883
 North American Securities Administrators, securities regulation, NASA remarks (address), 17368
 North American Van Lines, motor carrier accident, 4655
 North Atlantic Assembly, *see* North Atlantic Treaty Organization.
 North Atlantic Ocean, *see* Atlantic Ocean.
 North Atlantic slope basins, *see* Atlantic States.
 North Atlantic States, *see* Atlantic States.
 North Atlantic Treaty Organization:
 doing business with NATO, how U.S. companies can participate, etc., 1612
 NATO and defense of Europe—
 discussion guide, 16471
 United States foreign policy issues, 16470
 NATO, protection, peace, progress, 1949-69, 20th anniversary, 7488
 North Atlantic Assembly parliament meeting, 1968, report of U.S. delegation, 9459
 origin, establishment, etc., 10416
 situation in Czechoslovakia and U.S. Forces in Europe, postscript, 8066
 status of forces agreement, criminal jurisdiction operations, report, 451
 20 years of cooperation for peace (remarks), 8883
 North Carolina:
 Agricultural Stabilization and Conservation Service—
 annual reports, 11835-836
 census of business, 1967, retail trade, area statistics, 13746
 central, stratigraphy of Albemarle Group of Carolina slate belt, 4352
 climatological data, 2662
 counties, estimates of population, July 1, 1967 and 1968, 9159
 electric rate book, 4268, 14220
 employment statistics, 1958-66, compilation, 12979

North Carolina—Continued
 Federal outlays, report of Federal Government's impact by State and county, 9565, 9614
 Indian vital statistics, 8811
 landings—
 annual summary, 3912
 fish and shellfish, 3205, 15182
 mineral industry, minerals yearbook chapter, 962
 postal map, 6162
 precipitation data, hourly, 2962
 southern Blue Ridge area, soil survey in interpretations, 17391
 southwestern, rural renewal area, economic evaluation, 569
 uranium reconnaissance, preliminary, 13713
 North Cascades National Park, general information, 14712
 North Central Airlines, Inc., aircraft accident, 16283
 North Central Forest, Experiment Station, publications, 1968, list, 11166
 North Central States, *see* Central States.
 North Creek, Trinity River basin, Tex., 1966, compilation of hydrologic data, 11240
 North Dakota:
 ASCS annual report, 11837
 census of business, 1967—
 retail trade, area statistics, 11990
 selected services, area statistics, 16649
 wholesale trade, area statistics, 15107
 climatological data, 2662
 electric rate book, 1877
 Federal outlays, report of Federal Government's impact by State and county, 9566, 9615
 Federal waterfowl production areas, guide, 1434
 hydro-power plant transients, prototype measurements, 4215
 errata, 9716
 Indian vital statistics, 10315
 land purchase plan for Oahe Dam and Reservoir, Missouri River, modification report, engineers report—
 departmental edition, 12548
 document edition, 12246
 mineral industry, minerals yearbook chapter, 2159
 Missouri River basin streamflow characteristics in western Dakota tributaries, 16113
 National Park Service, North Dakota Governor's book, 14710
 natural resources, 4395
 precipitation data, hourly, 2962
 shelterbelts, major insect pests, abundance and distribution by climate and host age, 14289
 water resources data, 8379-80, 14370
 North Fork Camp Creek:
 flood plain information, 9666
 floods, metropolitan Atlanta, Ga., how to avoid damage, 12525
 North Fork Forked Deer River, flood plain information, 12457
 North Fork Obion River:
 flood plain information, 12470
 floods, how to avoid damage, 12518
 North Korea, *see* Korea.
 North Laramie River and Valley, watershed project, hearing, 502
 North Little Rock, Ark.:
 area wage survey, 4599
 flood plain information, 9664
 floods, how to avoid damage, 9706
 North Pacific Ocean, *see* Pacific Ocean.
 North Park, Colo., southwestern and vicinity, geology, 1958
 North Sea:
 eastern shores, sailing directions, change, 6117
 lights and fog signals, lists, 6128, 14729

- Northam, G. Burton :
 effects of steady-state acceleration on combustion characteristics of an aluminized composite solid propellant, 2233
 experimental investigation of effect of aluminum size and loading on burning rate of solid propellants under acceleration, 16163
- Northeast (U.S.) :
 forest atlas, 669
 national parks, general information, 6081
 Northeast Corridor subregions socio-economic projections, 14945
 northeastern area State and private forestry series, 7004-6, 11169
 pulpwood production, 15776
 sand and gravel on continental shelf, 5708
 silvicultural guide for paper birch in northeast, 17045
- Northeast Corridor Transportation Project, research reports, bibliography, 14223
- Northeast Marine Health Sciences Laboratory, water supply and sea resources program, collected reprints and resume, 4903
- Northeastern Forest Experiment Station, publications, list, 3190
- Northern Hemisphere, *see* Hemisphere, Northern.
- Northern Pacific Ry. Co., accident report, 11096
- Northern Utilization Research and Development Division :
 fermentation research, publications and patents, 8
 laboratories and functions, 3627
 origin and purpose, research program, etc., general information, 13546
 publications—
 and patents, list, chemically modified oil products and industrial uses, 16531
 list—
 oilseeds, composition, 16529
 soybean oil, edible, 16530
- Northwest (U.S.) :
 average water discharge, 1953-67, at selected gaging stations and change of storage in certain lakes and reservoirs, 5696
 Federal careers in Northwest, 12042-43
 forest industries, production, prices, employment, and trade, 3337
 Indian art, bibliography, 8411
- Pacific Northwest—
 and Columbia, water availability seminar, criteria for type 1 comprehensive river basin study, 10453
 animal damage to conifers on national forests, 11192
 competition for Federal timber, 12710
 crop-tree thinning of ponderosa pine, 12704
 current discharge at selected stations, 3470
 Elytroderma disease of ponderosa pine, 12711
 forest pest conditions, 8278
 month-end storage in major reservoirs, 3470
 national forests, 12688
 power planning, review, 11573
 precipitation and temperature, monthly, 3236
 river temperatures, 3399-3400
 ten-year hydro-thermal power program, 6483
 water, reports by Geological Survey, 17072
 water resources—
 summaries, 744, 3237, 17073
 weekly runoff report, 3238
 wilderness users, their characteristics, values, and management preferences, 8305
 role of nuclear power in Northwest (remarks), 15084
- Northwest (U.S.)—Continued
 seedling survival and growth of six northwestern tree species, effects of artificial flooding, 8294
- Northwind (oceanographic research vessel) :
 USCGC, oceanographic cruise, Northern Bering Sea, Bering Strait, Chukchi Sea, report, 12063
- Norton, Allen C., dorsal column system of spinal cord, its anatomy, etc., 16253
- Norton, Arthur J., marital status and family status, 12012
- Norway :
 economic trends and their implications for United States, 2044, 11307
 lights and fog signals, list, 1246, 8752, 17302
 market factors, 3904
 mutual defense assistance, agreement, 4975
 southwest coast, sailing directions, 6119, 10233
- Norway spruce, *see* Spruce.
- Norwood, Joseph, jr., causes of magnetic-field nonuniformity and its effect on stability of theta-pinch plasma, 10154
- Nose (aircraft) :
 nose bluntness, angle of attack, and roughness on transition on 5° half-angle cone at Mach 8, unit Reynolds number, effect, 2259
- Notched steel, *see* Steel.
- Notches, elastoplastic stress-strain behavior at notch roots in sheet specimens under constant amplitude loading, 11468
- Notes, Farmers Home insured notes, investor's opportunity, 11883
see also Treasury notes.
- Notes and working papers concerning administration of programs, 1742
- Notices to airmen, 2584
 international notams, 3001
- Notices to mariners :
 coastal and ocean regions of world, 3206
 Great Lakes and tributary waters west of Montreal, 3207
- Notifiable diseases, *see* Contagion and contagious diseases.
- Nova Scotia, sailing directions, change, 14727
- Novak, Arthur F. :
 commercial irradiation of shellfish with portable shipboard irradiator, final report, 7693
 radiation pasteurization of Gulf shellfish, 190
- Noxious plants, *see* Weeds.
- Nozzles :
 axial location of nozzle exit and jet velocity, effect on performance of twin-jet afterbody model, 16161
 effect of jet temperature on jet and pure tone noise radiation, 17211
 forward-facing, exhausting near large cylindrical body at free-stream Mach numbers of 3.0 and 6.0 exploratory investigation of flow field resulting, 7252
 four-engine cluster nozzle configuration, base flow field at high altitude, experimental investigation, 10115
 hypersonic turbulent nozzle-wall boundary layers, comparison of prediction methods and studies of relaxation, 16181
 laval, obtaining population inversion of molecules in supersonic stream of binary gas, USSR study, 7128
 Mach 4.4 water-cooled conical nozzle, experimental and theoretical turbulent boundary layer development, 14625
 nozzle flow, one-dimensional nonequilibrium numerical difficulties in integrating equations, 8639
 plasma accelerator with magnetic field arranged to produce divergent-nozzle effect, 7289
 plug and shroud geometry variables, effect on plug-nozzle performance at transonic speeds, 7275

Nozzles—Continued
 real-gas effects in critical flow thru nozzles and thermodynamic properties of nitrogen and helium, 4695
 errata, 16149
 rocket, use of energy thickness in prediction of throat heat transfer, 13131
 two dimensional inviscid jet flow from two nozzles at angle to plane surface, 6012
 NPPI, *see* Poultry.
 NPS national Prisoner statistics series, 1322
 NRAB, *see* National Railroad Adjustment Board.
 NRC, *see* National Research Council.
 NREC, *see* National Resource Evaluation Center.
 NRL, *see* Naval Research Laboratory.
 NROTC, *see* Naval Reserve Officers Training Corps.
 NSB, *see* National Science Board.
 NSF, *see* National Science Foundation.
 NSLI, *see* Life insurance.
 NSSDC, *see* National Space Science Data Center.
 NSSL, *see* National Severe Storms Laboratory.
 NTTC courses, 14723
 Nuclear construction engineering technology, 7689
 Nuclear defense design for architects and engineers, 13781
 Nuclear energy, *see* Atomic energy.
 Nuclear engineering:
 atomic power engineering and its role in technical progress, USSR study, 4436
 civilian career opportunities, Navy Department, 2360
 construction technology, 7689
 Nuclear explosions:
 acoustic waves in ionosphere, observations following nuclear explosions, 1835
 American high altitude thermonuclear burst Starfish, measurements of radiation effects aboard Kosmos-6 satellite, USSR study, 8505
 close in air blast from cratering nuclear detonation in rhyolite, 3804
 close-in ground motion and earth stress, 3806
 computer program to analyze dynamic response of high rise buildings, 13783
 nuclear handbook for medical service personnel, Army technical manual, 16601
 nuclear weapons effects tests of blast type shelters, documentary compendium of test reports, 16620
 Plowshare programs—
 civil, industrial, and scientific uses, bibliography, 7702
 close-in air blast from Cabriole event, 1601
 geologic and engineering properties investigations—
 Project Cabriole, 1602
 Project Palanquin, 1600
 geophysical properties of Palanquin crater site, Project Palanquin, 3805
 long-range air blast, Palanquin test, 7696
 surface motion measurements, Project Pre-Schooner Project II, 3803
 Pre-Gondola II, intermediate range ground motions, 1603
 Project Dribble, Salmon event free-field particle motion from nuclear explosion in salt, 9074
 prospects of using, in developing oil and gas deposits, USSR study, 12915
 safety of underground nuclear testing, summary report, 7714
 seismic intensity data used to predict effects in various geologic settings, 14333
 underground nuclear detonations—
 offsite safety programs, technical discussions, 13699
 seismic observations, Project Vela Uniform, agreement with Canada, 7525

Nuclear explosions—Continued
 why we test (remarks), 9086
see also Detonations.
 Nuclear explosives, *see* Atomic blasting.
 Nuclear fuel, *see* Fuel—Reactor fuel.
 Nuclear medicine:
 bibliography, 11961
 current status in medical practice, symposium proceedings, 3795
 erratum, 7676
 Nuclear ordinance, *see* Atomic ordinances.
 Nuclear physics, medium energy with electron linear accelerators, MIT 1967 summer study, 1605
 Nuclear power, *see* Atomic Energy—Atomic power.
 Nuclear power plants, *see* Nuclear reactor power plants.
 Nuclear powered ships:
 naval nuclear program, AEC authorizing legislation, 1970, hearings, 9243
 submarine officers, special pay, amend U.S. Code—
 hearings, 7948
 law, 10682
 reports, 7887, 9413
 Nuclear propulsion, *see* Propulsion.
 Nuclear radiation, *see* Radiation.
 Nuclear reactions:
 controlled thermonuclear research, perspectives on, conference report, 3813
 gamma-rays, studying by use of annular lithium-drifted germanium detector, 1001
 see also Spallation.
 Nuclear reactor power plants:
 CEMA symposium on atomic power stations with fast reactors, USSR studies, 12912-913
 earthquake resistant, design, considerations, 5156
 environmental aspects of operation of central power plants (remarks), 1607
 guide for economic evaluation of designs, 9069
 nuclear power papers from 7th World Power Conference, 2091
 planning for environmental protection in siting (remarks), 16633
 Siemens and nuclear power stations with pressurized water reactors, 3793
 Soviet, handling of radioactive wastes at atomic power stations, 12895
 Wuergrass site, design and safety, infomatory report, 5136
 Nuclear reactors, *see* Reactors (atomic).
 Nuclear rockets, *see* Rockets.
 Nuclear safety, technical progress review, 3208
 Nuclear science:
 abstracts, 3209
 analysis of world-wide contributions, 7715
 index, 3210
 cumulative report number, with public availability citations, 6477, 11970
 subject headings used, 7705, 16628
 serial titles cited, list, 194
 subject scope, 7704
 mainland China, selected bibliography, 911
 nuclear education and research, conference on special topics, 13690
 series, 3800-1
 topics in electron scattering and nuclear models, notes on lectures at NRL, 1264
 Nuclear standards for chemistry and technology, 7322
 Nuclear studies of nuclear light bulb rocket engine, 8594
 Nuclear techniques in on-stream analysis of ores and coal, 5166
 Nuclear tests, *see* Nuclear explosions.
 Nuclear warfare, *see* Atomic warfare.
 Nuclear weapons, *see* Weapons.
 Nucleation, *see* Phase studies.

- Nuclei:
condensation, from bubbled sea water, influence of monomolecular surface films on production, 2351
even-even, phenomenological and microscopic analysis of properties, 5160
Nucleic acids, chemical role of metals in nucleic acids discussed, USSR study, 11329
Nucleopolyhedron virus, *see* Viruses.
Nuclides, *see* Radionuclides.
Nugent, R. C., preshot geologic and engineering properties investigations, 1600
Numbers and characteristics of employees in institutions of higher education, 6884
Numerical analysis, *see* Numerical calculations.
Numerical calculations:
calculated interaction energy and dipole moment in collisions of 2 hydrogen molecules, 17234
calculation of—
geomagnetic time, 11565
theoretical load distributions for arbitrary lifting-surface arrangements at subsonic speeds, finite-step method, 13114
computations of topside ionograms from N(h) profiles, 8613
differential games and computation systems, USSR study, 2064
direction cosine computational error, 8654
first order calculation of properties of beam transport systems, FORTRAN programs, 13278
FORTRAN program for machine computation of group tables of finite groups, 14641
Hartree-Fock calculations with Wood-Saxon basis functions, 6014
lifting surface theory and tail downwash calculations for V-STOL aircraft in transition and cruise, 3784
methane-fluorine-oxygen and butene-1-fluorine-oxygen rocket performance, nonequilibrium calculations, 4721
method for evaluation and utilization of supersonic nacelle-wing interference, 7259
method of calculating compressible turbulent boundary layers, 1662
numerical difficulties in integrating equations for one-dimensional nonequilibrium nozzle flow, 8639
numerical forecasting of wind and wave conditions, USSR study, 8508
oxygen difluoride-diborane rocket propellant, theoretical nonequilibrium performance, 4722
solution for minimum induced drag, and corresponding loading, of nonplanar wings, 2197
thermal pollution effects on river ice conditions, 15649
timber managed stands, rapid computation of yield tables, 698
use of perforated walls to control shock location and movement in internal-compression, supersonic inlet, 13141
viscous compressible fluid flow around oscillating rigid cylinder, 17210
VLF mode calculations for propagation across land/sea boundary in earth-ionosphere waveguide, 1833
Numerical lists and schedule of volumes of reports and documents, 90th Congress, 2nd session, 11601
Numismatics, history, national numismatic collections, 7352
Nunlist, Frank J., nomination, hearing, 8088
Nurse Corps, Air Force, career opportunities, 77
Nurse Corps, Army, career opportunities, the bright adventure of Army nursing, 15060
Nursery schools, *see* Day care of children.
Nurses and nursing:
aerospace nurse date book, 15008
careers—
Federal Health Programs Service, 10296
Federal service, 13789
mental health, 6194, 16363
coronary nursing, outlook, proceedings of conference, 13360
dialysis symposium for nurses, 2414, 7415
educational opportunities and financial assistance, 15041
emergency handling of radiation accident cases, 11968
employment outlook, 4545
good training, good jobs, MDTA—
nurse aid to licensed practical nurse, 1809
upgrading practical nurses, 580
nursing care of patients with cystinosis, nursing clinical conference, 13174
nursing research grants supported by Nursing Division, list, 6058
nursing schools awarded construction grants, Dec. 1968–June, 1968, list, 2419
postal field service, exempt from provisions of United States Code, hearing, 1708
professional nurse traineeship program, 1198
PHS short-term training courses, 8699, 16265
schools offering traineeships for full-time academic study, 14806
psychiatric-mental health nursing institutions offering stipends, list, 13351
schools participating in nursing school assistance programs, 1970 fiscal year, 17282
see also Nurse Corps, Air Force—Nurse Corps, Army.
Nursing, American Journal of, *see* American Journal of Nursing.
Nursing Division:
National Institutes of Health, current research grants, supported, list, 6058
publications, lists, 6177, 7342
Nursing homes:
and related facilities—
industry manpower survey, 17419
social services guide, 6180
care of veterans—
extend—
hearings, 15476
reports, 9314, 9316, 16865
increase Federal payments, reports, 9318, 16867
extended care facilities, directory of providers of services under health insurance for the aged, 1389
minimum property standards, 8392
nursing and personal care homes, marital status of residents and living arrangements before admission, 8822
problems of nursing home patients, implications for improving patient care, excerpts from studying, 11628
special aids used for the aged and chronically ill, May–June 1964, statistics, 2432
Veterans' Administration care program, need for improvements in administration, GAO report, 15783
Nury, F. S., effects of microwave dehydration on components of apples, 9
Nusbaum, William J., cold performance evaluation of 4.97-inch radial-inflow turbine designed for single-shaft Brayton cycle space-power system, 7269
Nute, Cyril H.:
set of programs for computing multiple correlations and related statistics, 16059
two analysis-of-variance programs for disproportionate cell frequencies, 16059
Nutrients, *see* Nutrition.

Nutrition:

and developmental biology, assessment of present status, etc., 17280
and private industry hearings, 16895
applied clinical nutrition, medical service, Air Force manual, 7626
better eating for head start in child development centers, 12405
child nutrition—
and school food assistance, hearings, 14058
in developing countries, handbook for fieldworkers, 11311
statutes, compilation, 1502
Child nutrition act of 1966—
extend—
hearings, 6701
reports, 6691, 7922
meals for needy children, provide temporary emergency assistance, report, 12187
strengthen and expend—
hearings, 5373, 16877
reports, 6686, 6689
Clinical Center dietetic manual for metabolic kitchen units, 14686
Eastern African Conference on Nutrition and Child Feeding, Nairobi, Kenya, proceedings, 17121
education in Project Head Start staff training programs, guide, 10963
facts, 4776
Far East Symposium on Nutrition, papers, 1192
Follow Through's nutrition program (address), 15632
Human nutrition act of 1969, hearings, 9327
nutrient-defined formula diets for aerospace metabolic experimentation, 87
nutrition and human needs—
national survey, hearings, 8087, 10917, 12316, 14058, 15478, 16895
problems and prospects, hearings, 5463
nutrition program news (periodical), 3211
survey of Armed Forces, Paraguay, 2428
training the trainers, 12 nations represented in workshop on nutrition and kitchen improvement, 16555
type A topics, nutrition and type A lunch pattern, 5534
value, and food intake of diets of men, women, and children in United States spring 1965, preliminary report, 6358
West African conference on nutrition and child feeding, proceedings, 1345
see also Food.
Nutrition and Human Needs, Select Committee on, Senate:
committee prints, 15477, 16896
establish, text, 4091
hearings, 5463, 8087, 10917, 12316, 14058, 15478, 16895
investigations and studies, lack of food, medical assistance, and other related necessities of life and health, reports, 1727, 5420
Nutrition Laboratory, *see* Army Medical Research and Nutrition Laboratory.
Nutrition of plants, *see* Plants.
Nuts:
edible, trade and tariff information, summaries, 2511
mixed, in shell, U.S. standards for grades, 513
tree nuts—
farm labor used, 8991
production, use, value, by States, 14935
Nuts (machinery), *see* Bolts and nuts.
Nutter, G. Warren, nomination, hearing, 5427
Nybakken, G. H., laboratory experiments on reverted rubber friction, 14577
NYC, *see* Neighborhood Youth Corps.
Nycitropic movement as false wilt symptom of cotton, 14974

Nye County, Nev., Amargosa Desert, Geological Survey tracer study, exploratory drilling, tracer well construction and testing, and preliminary findings, 14360
Nylon:
low-density phenolic-nylon ablators, study of performance, 11472
parachute cloth, coding, manufacturer's color, military standard, 545
phenolic, chemical equilibrium of ablation materials, including condensed species, 14636

Nysmith, C. Robert, experimental investigation of momentum transfer associated with impact into thin aluminum targets, 17239
Nystagmus:
modification of vestibular nystagmus and vertigo by visual stimulation, 11971
vertical, head position influence on habituation of, 209

O

O.A.R., *see* Aerospace Research Office.

O.A.S.D.I., *see* Old age, survivors, and disability insurance.

O-rings, *see* Rings.

OAA, *see* Old age assistance.

Oahe Dam and Reservoir:

modification of land purchase plan, report, engineers report—

departmental edition, 12548

document edition, 12246

prototype measurements of hydropower plant transients of dam, 4215, 9716

Oahu, Hawaii:

water in Kahuku area, 12797

windward, water resources, 7064

Oak:

acorn moisture content critical for cherry-bark oak germination, 4309
chestnut—

rate of value increase, 17044

swamp seedlings, influence of soil type and drainage on growth, 9861

green lumber, dip treatment in polyethylene glycol not effective in preventing surface checking, 12698

northern red, rate of value increase, 17044
southern red oak propagation by rooted cuttings, 9862

stands, seed production in southern Appalachians, 1925

topography and soil relations for white and black oak in southern Indiana, 4325

upland stands of Kentucky, decay, 15773
water oak propagation by rooted cuttings, 9862

white, rate of value increase, 17044

Oak Ridge National Laboratory, desalination research, 15862

Oakland, Calif., area wage survey, 10023

OAR, *see* Aerospace Research Office.

OAR Research Applications Conference, proceedings, 11899

OASDIII, *see* Old-age, survivors, disability, and health insurance.

OASDI, *see* Old age, survivors, and disability insurance.

Oats:

diseases, and their control, 29

futures—

commitments of traders, 2680

trading and open contracts, 2931

Obacz, Ryszard S., relief, 9271, 12104, 13964

Oberholtzer, Betty L., publications of National Bureau of Standards, 7321

Obey River, flood plain information, 12456

Objectives and goals in space science and applications, 1039

Obligations, *see* Contracts.

- ORR series, 312-313, 1654-61, 3893-3904,
 5287-92, 6540-43, 7799-7804, 9200-11,
 10645-649, 12068-70, 15167-172, 16706-
 708
 O'Brien, Ann, hijacking, selected references,
 11036
 O'Brien, Harold W., attenuation of visible
 light by falling snow, 15038
 O'Brien, James T., evaluation of Scleroder-
 mis cancer on national forest land in Lake
 States, 11169
 O'Brien, Karen:
 tables for determination of lateral shield-
 ing requirements of high energy acceler-
 ators, 5153
 transverse shielding calculations for com-
 ponents of 1 2 TeV proton synchrotron,
 7681
 Obscene matter:
 enforcement report of Postal Inspection
 Service, monthly, 2798
 material sold or offered for sale to minors,
 exclude from U.S. mails as nonmailable,
 hearings, 13936
 use of postal service for unsolicited adver-
 tisement of hard-core pornographic or
 obscene material, hearings, 12227
 Obscenity and Pornography Commission:
 appropriations, 1970—
 hearings, 9331, 10886
 law, 16740
 reports, 9310, 9312, 10873, 15281
 Observation, what is observation?, Defense
 Supply Agency handbook, 16909
 Observers quarterly, 16527
 Obsolescence and opportunity, how Federal
 surplus property contributes to Nation's
 health, education, and civil defense, 7067
 Obstruction marking and lighting, change,
 5595
 Occulations, *see* Eclipses.
 Occupation (military), *see* Military
 occupation.
 Occupational classification, *see* Occupations.
 Occupational health, *see* Health.
 Occupational mental health notes, 3158
 Occupational safety, 16983
 Occupational safety aids, 8545, 12962
 Occupational Safety and Health Bureau, a
 look at Bureau of Occupational Safety and
 Health, general information, 16351
 Occupational therapists:
 Air Force career opportunities, 7619
 assistants, program, good training, good
 jobs, MDTA, 579
 employment outlook, 4527
 Occupational training, *see* Training.
 Occupations:
 Air Force, occupational handbook for air-
 men, manual for guidance counselors,
 15023
 and vocational education, 12442
 Army, recruiting & career counseling
 journal, 3371
 career development—
 program in global community health,
 11607
 program in research and education in
 medicine, 7556
 selected reference, 14379
 career opportunities—
 Air Force—
 civil engineering, as a civilian, 1529
 officers, aerospace leadership, guide,
 67
 ROTC cadet, 76
 air traffic control specialists, 275
 Army commissioned officers, 1580
 Army Nurse Corps, the bright adventure
 of Army nursing, 15060
 attorneys—
 Civil Aeronautics Board, 16674
 IRS, Office of Chief Counsel, 17101
 auditors, DSA civilian career program,
 9516
 Commerce Dept., auditing, 13803
 Occupations—Continued
 career opportunities—continued
 Customs Bureau, can you find it? 14074
 dentistry in Veterans Administration,
 4997
 Department of Agriculture, profiles, 45
 education, key people with your Federal
 Government, 16688
 Education Office, training for leader-
 ship, 4188
 engineers in Forest Service, 3650
 extension agent, 14998
 Farmers Home Administration, 9734
 FBI, 8206
 Federal Water Pollution Control Admin-
 istration, your career and clean water
 for America, 1900
 go Government, 289
 Internal Revenue Service—
 revenue agent, 15872-873
 taxation, 4406
 Interstate Commerce Commission, 12864
 accountants and auditors, 11313
 journeymen in printing crafts, 6522
 Labor Department, help us meet the
 challenge, 4463
 maritime fleet, cooks, bakers, butchers,
 training program, disadvantaged
 young men prepare for well-paying
 careers, 4195
 mental retardation field, 8384
 National Institutes of Health, adminis-
 tration, 10190
 nurses in Federal Health Programs
 Service, 10296
 Post Office Dept., Research and Engi-
 neering Bureau, endless challenge,
 2393
 Small Business Administration, 8847
 Soil Conservation Service, soil science,
 11875
 transportation specialists, ICC, 11312
 Veterans Administration, Department of
 Medicine and Surgery, physicians,
 11766
 why not be a personnel specialist? 2545
 women—
 conservation work, 8939
 mathematician, why not be one, 1494
 Women's Army Corps, new life, new
 world, 138
 civilian-Army occupational relationships,
 personnel selection and classification
 tables, 15050
 conservation, foresters, forestry aids, range
 managers, 4492
 drilling, analysis and description, USSR
 study, 17133
 employment patterns for 1960 and 1975,
 4595
 Federal—
 blue collar workers, Oct. 31, 1966, list,
 1645
 career directory, guide for college stu-
 dents, 12041
 occupational groups and series of classes,
 handbook, 2952
 white collar workers, Oct. 31, 1967, list,
 3885
 girls, expanding opportunities, their spe-
 cial counseling needs, 14969
 health, manpower supply and educational
 statistics, health manpower source book,
 16256
 job grading standard, civil service —
 aircraft mechanic, 7775
 automotive mechanic, 7776
 boiler plant operator, 16683
 carpenter, 7777
 cook, 3879
 electrician, 12048
 elevator operator, 12049
 fork lift operator, 3880
 intermediate jobs, 3881
 laundry machine operator, 7779
 motor vehicle operator, 3882
 presser, 7780

Occupations—Continued

job grading standard, civil service—con.
sewage disposal plant operator, 16684
sheet metal mechanic, 16685
trades helper jobs, 3883
water treatment plant operator, 16686
job grading system for trades and labor
occupations, 280-281, 3018
job opportunities—
apprentice training available, 4605
college education usually required, 4606
high school education—
generally required, 4607
preferred, but not essential, 4608
jobs overseas, questions and answers, in-
formation, 4197
junior college, technical institute, or other
specialized training usually required,
4609
Marine Corps, occupational opportunities,
16046
move ahead, research careers in Forest
Service, 1513
national industry, occupational matrix and
other manpower data, projections, etc.,
7174
national trends and outlook—
industry employment and occupational
structure, 10015
occupational employment, 10016
Navy—
career planner, handbook and manual for
civilian guidance counselors, etc.,
16311
manual for civilian guidance counselors,
etc., 6131
new careers, jobs with a future and pro-
fession, 5884
occupational differences in separation rates
for railroad workers, 13389
occupational guide, 16002
occupational licensing and supply of non-
professional manpower, 15999
occupational outlook in late 1960's, facts,
14478
occupational safety aid, OSA LS series,
14446-450, 16010, 17152-153
optometry, occupational guide, 16002
outlook, quarterly, 3213
publications, price list, 2404
selling job development to the disadvant-
aged, 5887
skilled craft, apprentice training, sure way,
15029
survey of 28 Air Force career ladders with
19 jobs, inventories, 8997
trades and labor—
job grading system, FPM supplement,
3877, 7772-73, 9190, 12047, 16681
job qualification system for occupations,
12050
trades, journeyman and junior levels, ex-
amination announcement, 15135
trends in sanitary services, warehouses,
and stockrooms in northern Illinois,
14466
wage trends for occupational groups in
metropolitan areas, 902
see also Employment—Military occupa-
tional specialties—also names of oc-
cupations, industries, etc.

Occupied territory, see Military occupation.

Ocean:

artificial sea slicks, modification of air/sea
interface, 2356
bottom reflections, sound generation by sur-
face wave and velocity of sound in water
as function of depth, USSR study, 15929
deep sea release mechanism technical
memorandum 614
dumping poisonous gas and waste materi-
als into oceans, international implica-
tions hearings, 9346
fishermen's atlas of monthly sea surface
temperatures for Gulf of Mexico, 3918.

Ocean—Continued

land/sea boundary in earth-ionosphere
waveguide, VLF mode calculations for
propagation across, 1833
marine acoustics, USSR study, 5839
marine geology, research beneath the sea,
11242
marine surface observations, Weather Bu-
reau observing handbook, 10455
our Nation and the sea, plan for national
action—
departmental edition, 6164
document edition, 5333
physics of atmosphere and ocean, USSR
studies, 15945
physics of sound in the sea, 16318
sound velocity cross sections of world's
oceans, 13236
space, basic principles governing activities
of nations, place before United Nations
Committee on Peaceful Uses of the Sea-
bed and Ocean Floor, expressing sense
of Senate, hearings, 15450
surveying, satellite navigation as aid,
13239
temperature, salinity, and density of
world's seas—
East China Sea, 10215
Sea of Japan, 13220
Yellow Sea, 13218
time series from beach environment, 611
turbulence and internal wave parameters,
USSR study, 8502
upwind-downwind-crosswind sea-clutter
measurements, 14748
water supply and sea resources program,
Northeast, Marine Health Sciences
Laboratory, collected reprints and re-
sume, 4903
world ocean studies, ten year program,
USSR study, 2063
see also Ocean temperature—also names
of oceans—also Waves.
Ocean cables, see Submarine cables.
Ocean City, N.J., floods, how to avoid dam-
age, 12488
Ocean cruises, see Cruises.
Ocean currents :
along east coast of Africa, 13214
North and South Atlantic Oceans, etc.,
4824
Smith Sound, measurements, 1648
Ocean Delight (vessel) :
coastwise privileges, authorize, hearings,
1706
Ocean Station DELTA, north Atlantic, 44°
N 41° W, July 1966-Aug. 1967, oceanogra-
phic observations, 12062
Ocean stations, see Weather stations.
Ocean temperature :
East China Sea, 10215
field structure at surface of water, USSR
study, 5870
Gulf Stream—
anomalies, etc., for western North
Atlantic, monthly summary, 3144
historical mean surface temperature
data, western North Atlantic, monthly
summary, supplement, 10223
magnitude of temperature variability at
one location in Tongue of the Ocean,
13212
measurements, synoptic temperature-
depth observations in Tongue of Ocean,
Bahamas, comparison, 13227
method and equipment for investigating
turbulent temperature fluctuations in
the sea, USSR study, 7159
North Pacific Ocean, sea surface monthly
mean charts 5297
ocean wave parameters and temperature
fluctuations, USSR studies, 8524
Sea of Japan, 13220
surface water, Atlantic Coast, North and
South America, 296
Yellow Sea, 13218

Ocean transportation, *see* Shipping.

Oceania:

agricultural data book, 15623

agricultural situation—

1968 midyear review, 573

1968 review and 1969 outlook, 8160

1969 midyear review, 16950

nautical charts and publications, catalog, 10230

Oceanographers, employment outlook, 4501

Oceanographic Data Center, National *see*

National Oceanographic Data Center.

Oceanographic Surveys Department, data flow patterns, 13237

Oceanography:

Atlantic Continental shelf and slope of U.S., color of marine sediments, 5716

Baffin Bay and Nares Strait, 1648

bottom sediment data program users guide, 13238

Channel Islands area off southern California, Sept.-Oct. 1965, 13268

Chernomor Underwater Laboratory, USSR, history, 2058

films, list, 8744

formatting oceanographic data, guide, 13230

Grand Banks region—

and Labrador Sea in 1966, report, 15154

of Newfoundland, 1967, report, 13801

H.O./B.C., chart, design and production, 13234

Laptev and East Siberian Seas, summer oceanographic features, 13267

man under water, USSR study, 12949

MAREP, marine environmental prediction, Federal planning guide, 8676

marine research, 11531

marine resources and engineering development act of 1966, amend—

law, 9241

reports 7885, 9406

marine science affairs, year of broadened participation, report—

departmental edition, 4770

document edition, 3972

Marine Science, Engineering and Resources Commission panel reports, marine science and environment, national program, 10285

marine surface observations, 10455

National Data Buoy Systems, first scientific advisory meeting, proceedings, 16696

National Oceanographic Data Center—

publications, 8744, 11560

quarterly accessions, 3203

national oceanographic program, hearings, 12235

Naval Oceanographic Office, annual report, 16296

North Atlantic Ocean Stations—

Bravo, 15155

Echo, 15156

Northern Bering Sea, Bering Strait, Chuckchi Sea USCGC Northwind oceanographic cruise, report, 12063

oceanographic cruise summaries—

Baffin Bay, Davis Strait, Labrador Sea, 13228, 13260

Davis Strait, 13254

Denmark Strait, 13233

dye dispersal study in Da Nang Bay, Republic of Vietnam, 13229

eastern Gulf of Maine and continental margin, 13223

Gulf of Mexico, 13251

marine biofouling studies—

off Maizuru, Yokosuka, and Sasebo, Japan, 2327

Montego and Oyster Bays, Jamaica, 13253

North Atlantic Ocean, edge of Gulf Stream, 13259

Ross Sea, Antarctica, 13241

Oceanography—Continued

oceanographic cruise summaries—con.

UNITAS IX cruise around South America, 13255

USNS Lynch (T-AGOR 7) seismic survey of Wilmington Canyon, 13258

western Greenland Sea, 13221

oceanographic data, Geo-sort file, extracting information by computer programming, 13215

oceanographic observations—

Kara and eastern Barents Seas, 16697

North Atlantic Ocean Station DELTA, 44° N. 41° W., July 1966–Aug. 1967, 12062

oceanographic reports, 1648, 9198, 12062–63, 13801, 15154–156, 16697

oceanographic ship operating schedules, 6054, 11530, 13164–165

oceanographic surveys, 10238, 13266

oceanography in 90th Congress, report, 7969

oceanology future within Maritime Administration (remarks), 5925

Omega and NAVOCANO test, status report, 13242

physical, chemical, and biological, of entrance to Gulf of California, 1960, spring, 5303

Project FLOOD, report on data collected by Mine division 43, central Mediterranean Sea, May 1965, 13235

remote sensing, 13224

San Clemente Island area, July–Aug. 1967, data report, 13225

satellites capable of oceanographic data acquisition, review, 13269

Sea of Japan, oceanographic cruise summary, reconnaissance survey, 10218

spacecraft, 1964–67, report, 13232

Surveymarine, high speed hydrographic survey, platform, 10222

three-component marine magnetometer, USSR study, 15944

350° panoramic camera for underwater use, 13250

Traitors Cove, Revillagigedo Island, Alaska, oceanographic surveys, 3927

Transportation Dept. and marine sciences, report, 13507

underwater photogrammetry, applications, 13240

university curricula in marine sciences and related fields, 16237

upwind-downwind-crosswind sea clutter measurements, 14748

Oceanographic Institute for, *see* Institute for Oceanography.

Oceanology, *see* Oceanography.

Ochoco National Forest:

Douglas-fir tussock moth control, 1965 surveillance, Burns project, 14295

general information, 14275

Ochs, G. R., measurements of laser beam spread and curvature over near-horizontal atmospheric paths, 9726

Ocjee County, Ga., soil survey report, 8867

O'Connell, James D., nomination, hearings, 9452

O'Connell, Joseph J., jr., remarks, Dec. 11, 1968, 2324

O'Connor, Charles M.:

industrial wage survey—

electric and gas utilities, 10017

footwear, 16024

O'Connor, J. J., cuprous chloride in hydrochloric acid, analysis and solubility, 1537

O'Connor, James F., hemispheric teleconnections of mean circulation anomalies at 700 millibars, 12573

Oculometers, laboratory oculometers, 17200

Odar, Fuat:

high-response triaxial strain-gage anemometer, 7647

unsteady motion of sphere along circular path in viscous fluid, 9032

- O'Dell, Charles A., domestic wool marketing system, 12408
- Oden, Laurance L., preparing alkaliized alumina, 14557
- Odessa, Tex., area wage survey, 11339
- Odum, Lewis G., jr., lease guarantee program of Small Business Administration, staff review and analysis, 4073
- Odullo, Benito V., relief, 4043
- OECD, *see* Organization for Economic Co-operation and Development.
- OEDP (overall economic development program), *see* Redevelopment (city planning, etc.).
- Oehman, Waldo I., bodies of revolution having minimum total drag in hypersonic flow, 16184
- OEI, *see* Economic Opportunity Office.
- OET, *see* Emergency Transportation Office.
- Off-airway routes (non part 95), 3718
- Offenses, *see* Crime and criminals.
- Office buildings, modern, live floor loads and fire loads, survey and evaluation techniques, 2282
- Office employees:
- clerical, pay, national survey, 4597
 - Federal office assistant examination, what it is and how it is given, 5260
- Office furniture and equipment:
- business machines—
 - industry in Japan, 1654
 - market in Austria, 3593
 - executive type, wood—
 - and metal, Federal standard, 9830
 - unutilized, Federal standard, 11142
 - Federal item identification guides for supply cataloging, supplements, 2849
 - office machines—
 - current industrial reports, 234
 - shipments 1958-67, patterns of industrial growth, 7734
 - production and trade of business machines in principal world markets, 10592
 - space planning and layout, guide, 16334
- Office machine operators, employment outlook, 4482
- Office machine servicemen, employment outlook, 4485
- Office machines, *see* Office furniture and equipment.
- Office management, forms management, records management handbook, 16222
- Office of Aerospace Research, operation new home, brief history of establishment of permanent location, 11898
- Office of Chief of Chaplains, Army Dept., historical review, 9036
- Office of Emergency Preparedness, *see* Emergency Preparedness Office.
- Office of Interstate Land Sales Registration, organization, 9945
- Office of Programs for Disadvantaged grass-roots conference sponsored by, recommendations, 9660
- Office of Special Representative for Trade Negotiations, *see* Special Representative for Trade Negotiations, Office of.
- Office supplies, and devices, Federal item identification guides for supply cataloging, supplements, 2849
- Officer candidate schools, Quantico, Va., physical training platoon, evaluation, 14506
- Officer Exchange Program, Departments of State and Defense, analysis and assessment, committee print, 6788
- Officers, *see* Armed Forces—Officer Exchange Program—also names of services to which officers belong.
- Offices, space planning and layout, guide, 16334
- Official gazette of Patent Office, 3214
- Offshore labor, agreement with Philippines, 6291
- Offshore mineral resources, challenges and opportunity, 17366
- Ogelman, H., lectures in high-energy astrophysics, 11430
- Ogilbee, William, exploratory drilling for ground water in western Sokoto Province, Nigeria, 12770
- Ogives, cylinder roughness drag due to two-dimensional fabrication-type surface roughness from force tests at transonic speeds, 4732
- Oglala irrigation project, cattle enterprise, Pine Ridge Reservation, S. Dak., 9949
- Oglesbee, John W., devices for producing both hard copy alphanumeric listings and digital data plots, 16201
- Ohanesian, Roger V., catalog of tissue typing antisera, 13169
- Ohio:
- Agricultural Stabilization and Conservation service—
 - annual reports, 11838-839
 - Congressional district summary, 11840
 - apples, marketing order authority, extend, report, 16871
 - census of business, 1967, retail trade, area statistics, 13747
 - climatological data, 2662
 - electric rate book, 11073
 - Federal outlays, report of Federal Government's impact by State and county, 9567, 9616
 - Lake and Cuyahoga Counties, Chagrin River floods, damages need not increase, 12529
 - landings, fishery, products, 3117, 10663
 - lands in Raccoon State Forest and Zaleski State Forest, convey to, hearings, 387
 - mineral industry, minerals yearbook chapter, 2160
 - precipitation data, hourly, 2962
 - south-central, hydrogeology of Scioto River Valley near Piketon, 9933
 - uranium reconnaissance, preliminary, 13709
 - water pollution, pollution of Lake Erie and its tributaries, etc., conference proceedings, 5656, 9836
 - water resources—
 - data, 9917
 - development by Army Corps of Engineers, 11008
 - West Virginia-Ohio air pollution control, consent to interstate compact, hearings, 8089
- Ohio River and Valley:
- and tributaries, flood plain information, 9682
 - Newburgh Lock, effect of valve position in sidewall port filling system, 1827
 - Ohio River summary and forecasts, 3218
 - small boat harbors, ramps, landings, etc., 9710-11
 - surface water quality of basin, 12802
 - terminals, locations, etc., list, 9712-13
- Ohio River Division Laboratories:
- miscellaneous paper, 1820
 - technical reports, 600-601, 1821
- Ohlhaber, Ronald L., evaluation of vacuum UV detector-spectroscopy systems for capsule reentry measurements, 5975
- Oil, *see* Oils—Petroleum.
- Oil and Gas Office:
- appropriations, 1970—
 - hearings, 7946
 - reports, 12171, 15398
 - press releases, 3313
- Oil fields, *see* Petroleum.
- Oil films, *see* Films (coatings)—also Lubrication.
- Oil Import Administration, press releases, 3314
- Oil Import Appeals Board, decisions, 3219
- Oil land leasing act, *see* Mineral lands.
- Oil pipe lines, *see* Pipe lines.
- Oil pollution of rivers, harbors, etc., *see* Water pollution.

- Oil shale:
Green River formation, determination of dawsonite and nahcolite, 13028
theoretical relationship between density and oil yield, 7218
Oil spill problem, 17367
Oil Spills, President's Panel on, *see* President's Panel on Oil Spills.
Oil wells, *see* Petroleum.
Oilfields, *see* Petroleum.
Oils:
chemically modified oil products and industrial uses, publications and patents, list, 16531
current industrial reports, 230-231, 2732
fats and oils situation, 2823
Federal item identification guides for supply cataloging, supplements, 2847
foreign agriculture circulars, 2902
oil mists from mechanical vacuum pumps, control and reduction, glovebox fire safety application, 13719
Soviet sunflowers and the world vegetable oil market (paper), 5532
superrefined mineral, and some polyphenyl ethers, lubrication with, in 600°F (316°C) inerted vane pump loop, 7273
vaporization of oil during gas cycling, effects of pressure, temperature, and type of oil, 11392
see also Lubricants—also names of oils.
Oilseeds:
composition, publication, list, 16529
U.S. farm policies (remarks), 61
Olto, R. H., comparison of trip lights and reflectors, 980
Ok Ja Lee, *see* Lee Ok Ja.
Okaloosa County Board of Public Information, real property conveyance to, hearings, 15303
Okanogan County, Wash., geology of magnetite deposits, preliminary report, 735
Okanogan River, river mile index, 13310
Oklawa:
pocket guide, 3732
tracking station, agreement with Japan, 2492
Oklahoma:
Agricultural Stabilization and Conservation Service, activity summary, 10471
1st Congressional District, 13569
2d Congressional District, 13570
3d Congressional District, 13571
4th Congressional District, 13572
5th Congressional District, 13573
6th Congressional District, 13574
census of business, 1967, retail trade, area statistics, 13748
climatological data, 2662
east, forest, 701
electric rate book, 647, 14221
Federal outlays, report of Federal Government's impact by State and county, 9568, 9617
Girty's invertebrate fossils from Fayetteville shale (Mississippian), revision, 15803
Indian vital statistics, 10316
mineral industry, minerals yearbook chapter, 4624
precipitation data, hourly, 2962
southern Coastal Plain and Blackbelt areas, soil survey interpretations for woodlands, 16440
uranium reconnaissance, preliminary, 13710
Oklahoma City, Okla.:
area wage survey, 4598
interstate route 40, development of multiple use facilities on highway right-of-way, 16384
Oklahoma County, Okla., soil survey report, 6246
Oklahoma Transportation Co., motor carrier accident, 4656
Okmulgee County, Okla., soil survey report, 10383
Okra, frozen, U.S. standards for grades, 12331
Okun, Arthur M., economic issues for the future, 882
Old-age and survivors insurance, issues in financing, 2108
see also Old-age, survivors, disability, and health insurance.
Old age assistance:
cost standards for basic needs and percent of standards met, tables, 2300, 7334, 11527
money payment to recipients, 2299
OAA program, general information, 6226
see also Old age insurance.
Old age benefits, *see* Old age insurance—also Old age, survivors, and disability insurance.
Old-age insurance:
Federal health insurance for the aged, social security rulings relating to Federal health insurance, 16413
highlights from age and benefits distributions for aged, beneficiaries, 11670
social security rulings, 3442, 10373
see also Aged.
Old-age, survivors, and disability insurance:
additional interest earnings of OASDI trust funds resulting from changed interest rate provided in 1960 amendments, 6229
cash benefits to persons aged 65 or over—1948-68, and May 1968, concurrent receipt, 7331
1948-69 and Feb. 1969, concurrent receipt, 17267
disability incidence rate under OASDI system for disability onsets, 1386, 16409
household workers and their employers, statistics, 10372
retirement experience of old-age beneficiaries, 1958-68, 16410
termination experience of—
disabled-child benefits under OASDI, 1387
disabled worker benefits under OASDI, 7457
see also Disability insurance—Old age survivors, disability, and health insurance.
Old-age, survivors, disability, and health insurance:
benefit statistics, monthly, 3130, 6233, 16414
calendar year benefit data, 6233
comparison of actual experience under OASDI system with short-range cost estimates, 6227-28, 11664
self-employed doctors of medicine under OASDI, 8857
social security coverage of Federal personnel, 11669
social security handbook, 10379
workers under social security, 1960, annual and work history statistics, 2461
Old Patent Office Building, National Collection of Fine Arts, National Portrait Gallery, general information, 13163
Old Salem Church, Chancellorsville Campaign, historical data, 8731
Old Stone House, Georgetown, D.C., its 18th century occupants and furnishings, 8732
Older persons, *see* Aged.
Older workers, *see* Labor.
Olds, G. V., digital computer system for signal analysis, 7385
O'Leary, John F., nomination, hearing, 480
O'Leary, Timothy J., effect of ascorbic acid supplementation on tooth mobility, 3711
Olefin, radiation chemical reactions, with methanebriol and with methylsilanes and of dimethylamine, 5159

- Oleoresins, assessing potential yields of slash pine progenies at juvenile ages, 7012
- Oler, Harriet L., copyright law revision, index of hearings, 484
- Olives, tariff concessions, agreement with Spain, 8884-85, 13478
- Ollerhead, John B., description of helicopter rotor noise computer program, 6454
- Olsen, William A. Jr., three-phase heat transfer, transient condensing with freezing on unisothermal inclined plate, 13093
- Olson, Boyd E., remote sensing in oceanography, 13224
- Olson, David F., Jr., silvical characteristics of yellow poplar, 9868
- Olson, Grant:
basic data on economy of Sweden, 16707
market factors in Norway, 3904
- Olson, Keith S.:
bromine, 13007
mineral industry of—
Minnesota, 958
Wisconsin, 2167
- Olson, Kenneth C., uses of input-output analysis in State policy planning for economic development, paper, 12396
- Olson, Pauline T., use of army school samples in estimating ACB test validity, 6447
- Olstad, Walter B., blunt-body stagnation-region flow with nongray radiation heat transfer, singular perturbation solution, 1148
- Oltman, Florine:
south Asia—
selected references, 11914
selected unclassified references, supplement, 11915
- Olympic National Forest:
general information, 8287
1968 report, 14276
- Olympic National Park, general information, 8733
- Omaha, Nebr.:
area wage survey, 7179
flood plain information, 9677
- Oman, *see* Muscat.
- O'Marra, John L., nomination, hearing, 5464
- O'Mathuna, Diarmuid, vinti dynamical problem and geopotential, 8655
- Omega navigation system, *see* Navigation.
- Omniranges, frequency management engineering principles, VHF/UHF/microwave link facility handbook, 12590
- On batholiths and volcanoes, 13437
- On cutting corners, 12638
- On frontier of silence (speech), 4929
- On guard, Motor Carrier Safety Bureau bulletin, 16116
- Onagraceae, *see* Camissonia.
- Oncogenic viruses, *see* Viruses.
- O'Neal, Walter, major collective bargaining agreements, paid vacation and holiday provisions, 12964
- Onelda project, Bear River, Idaho, development, owned by Utah Power and Light Co., water resources appraisal for hydroelectric licensing, evaluation report, 15718
- O'Neill unit, *see* Missouri River and Basin project.
- Onions, C. A., sediment transport in streams in Umpqua River basin, Oreg., 12787
- Onions, dry, loading patterns for ventilated rail and truck shipments, 7
- ONR, *see* Naval Research Office.
- Ontario, Calif., area wage survey, 5907
- Ontario, Canada, tobacco, growing, harvesting, etc., 1903
- Ontario County, N.Y.:
Canandaigua Outlet—
flood plain information, 9667
floods, keep damages low by building high, 12526
- Ontario, Lake, basin, water pollution problems and improvement needs, 9839
- Ontogeny:
Passifloraceae, systematic anatomy and ontogeny of stem in, 10199
- Splinaecopia, new genus of Myodocopid Ostracod (Sarsiellidae), 13421
- Oocystis polymorpha, *see* Algae.
- Oolitic aragonite and quartz sand, laboratory comparison under wave action, 10994
- Opacity, eye opacities in flying personnel, 3693
- Open space, its use and preservation, 50
- Operating engineers, construction machinery operator employment outlook, 4528
- Operation Deep Freeze, *see* Antarctic regions.
- Operation Golden Eagle:
Golden Eagle Program—
extend, report, 15374
restore to land and water conservation fund act, hearings, 12303
- 1969 directory of Federal recreation areas requiring entrance and user fees, 7393
- Operation Iliore (high energy neutron reactions experiment):
distribution of radiation from 14 MeV neutron source in and near structures, 9063
energy and angular distribution of neutrons and gamma rays, 16619
- Operation new home, 11898
- Operation of reverse osmosis pilot plants, 9964
- Operations (surgical), *see* Surgery.
- Operations of Federal unemployment account (Reed act loan fund), Dec. 1954-Dec. 1968, 10371
- Ophiuroidea, recent ophiuroid type specimens in major collections in United States, catalog, 17285
- Ophthalmic lenses, *see* Lenses.
- Ophthalmology, effects of ultraviolet radiation on eye, 10530
see also Eyes.
- Opiates, *see* Narcotics.
- Opinion (public), *see* Public opinion.
- Opinions, *see* names of courts, etc., rendering opinions.
- Opium, laws, compilation, 1686
- Oppenheim, Edward E., defense management journal, 2754
- Opportunities in world trade for small businessman, 10644
- Optical absorption and fluorescence in fused silica during TRIGA pulse irradiation, 1015
- Optical analysis, optical investigations of stretch-formed aluminum solar concentrators, 1108
- Optical filters, *see* Filters and filtration.
- Optical instruments and apparatus:
electro-optical aids, discomfort in use, analysis, light flashes, pupil size, and visual performance, 8577
fundus tracker for experiments in stabilized vision, research study, 997
microwave modulated, dual optical wavelength geodetic distance-measuring instrument, development, 12572
optical pilot warning indicator system, compilation of data from related technologies in development of, 10120
shear strain properties to 10^{-10} , 4675
- Optical measurements:
Investigation of turbulence by optical methods, USSR study, 12881
onboard, of ejected probe or natural satellite, method of deriving orbital perturbing parameters, 14584
tau-measurements of relaxation processes with a jump, USSR study, 5824
- Optical mechanics, *see* Mechanics (persons).
- Optical model, analysis of proton scattering in range 16 to 22 MeV, 8614

Optical paths :
 climatological mean probability of penetrable optical path for high intensity, high contrast optical targets --
 Africa—
 graphs, 1841
 maps, 4220
 Eurasia—
 graphs, 1810
 maps, 4219
 North America, maps, 4222
 South and Central America, Caribbean area, Australia, etc.—
 graphs, 1842
 maps, 4221
 2GHz electromagnetic wave propagation over optical paths in 3 geographical regions of United States, 17205
 Optical radiation, *see* Radiation.
 Optical signals, *see* Signals.
 Optical spectra, *see* Spectra.
 Optical systems :
 control and guidance signals derived from optical fields, techniques for generation, 16146
 evaluation for lifting-body terminal-area navigation and landing tasks, 11488
 recording schlieren images with continuous-writing ultra-high-speed framing camera, 4718
 using optical correlation technique for detecting impending fatigue failure, feasibility, 11957
 Optical targets, *see* Targets.
 Opticians, employment outlook, 4499
 Optics :
 classification definitions, 1297, 2384, 6156
 relationship between optical distortion and binocular depth perception, 10113
 simulation of radio astronomy interferometer experiment, 16156
 systems and elements, classification definitions, 1296
 waves approaching exact solutions, theory, 16609
 Optimal control :
 human as an optimal controller and information processor, 1004
 problems, combined Newton-Raphson and gradient parameter correction technique for solution, 1147
 trajectories, generation of ideal coordinate systems for analysis of, 1037
 Optimal processes :
 electrical system power flow optimization, using gradient method, USSR study, 851
 optimal 3 dimensional launch vehicle trajectories with attitude and attitude rate constraints, 7287
 optimum design and flight of rockets, investigation, 4753
 radio signals, digital method, USSR book, 5872
 time optimal space rendezvous computational method, 4742
 see also Mathematics.
 Optimal weighting of course grades for 2 naval air training schools, 14500
 Optimization :
 JP-4 fuel emulsions and development of design concepts for their demulsification, 5129
 system optimization for 1000 MWe sodium-cooled fast reactor, follow-on study, task report, 16622
 test plan for Explorer-size spacecraft, 13090
 VTE saline water plants, development of mathematical model and computer program, 8417
 Optometrists :
 District of Columbia, examination and licensure, regulate, hearings, 9340
 employment outlook, 4529

Optometry :
 occupational guide, 16002
 practice in District of Columbia, regulate, hearings, 9340
 O'Quinn, Floyd E., enumeration plan and sample design, 9164
 Oral cancer, *see* Cancer.
 Oral diseases, *see* Mouth.
 Oral health, *see* Mouth.
 Oral hygiene, *see* Mouth.
 Oral prophylaxis pellet, stable stannous fluoride preparation, 16570
 Orange, Thomas W., semiempirical fracture analysis for small surface cracks, 13118
 Orange, Tex. :
 area wage survey, 16014
 flood plain information, 12476
 floods, how to avoid damage, 12505
 Orange County, Calif. :
 deep aquifers, study, 15809
 flood water information, 9676
 Laguna Canyon flood hazard, problem, solution, etc., 12448
 Orange juice :
 frozen concentrated, futures trading and open contracts, 6552
 U.S. standards for grades—
 canned, 1753, 10925
 canned blended orange juice, 10924
 canned blended orange juice and grapefruit juice, 4108
 canned concentrated, 1752, 4109
 dehydrated, 1756
 from concentrate, 1759, 10928
 frozen concentrated, 1758
 frozen concentrated blended, orange juice and grapefruit juice 1757
 pasteurized, 1760, 10929
 Oranges, genera, species, and subordinate taxa in orange subfamily Aurantioldeae (Rutaceae), catalog, 13537
 Orbltron gages, designs, low pressure application, study, 11403
 Orbits :
 class of optimum orbit modifications, analytical solutions, 13044
 correcting Keplerian orbits, minimum thrust for, with application to interplanetary guidance, 2245
 earth—
 earth-moon comparison with class of rotating Kepler orbits, 1120
 future orbital missions, effects of cloud cover on selection of recovery sites, 7288
 orbit rendezvous maneuvers, visual sensing of spacecraft guidance information, 21894
 Goddard Range and Range Rate System at Rosman evaluation by Intercomparison with GEOS I long-arc orbital solutions, 11473
 gravity model comparison using GEOS I long-arc orbital solutions, 11436
 lunar orbit determination, accuracy effect of gravitational-model selection from short data arcs, 7278
 manned earth orbiting missions, biotechnology laboratory, study—
 results, recommendations, and requirements, 14580
 summary of individual experiments requirements, 14581
 orbital lifting vehicle, non-linear longitudinal dynamics, 17209
 orbital perturbing parameters, method of deriving, from onboard optical measurements, of ejected probe or natural satellite, 14584
 orbiting spacecraft, analysis of operation of mass measuring system, 6005
 simulated orbital flight, decompression stress, 93

Orbits—Continued

- spacecraft orbiting planets or moon, computer program for calculating external thermal-radiation heat loads and temperatures of, 6023
- sub-orbital studies of behavior in gravity field, suitability of white rats, 2206
- Vinti and Brouwer orbit prediction methods, accuracy and speed comparison, 11454
- visual acuity and visibility of markings on ground in long-duration earth-orbital space flight, experiments, 2183
- Orcutt, John C., secondary refrigerant freezing process, mathematical study, 798
- Order of Railway Conductors and Brakemen, emergency board report, 8177
- Orders, *see* names of departments, etc., issuing orders—*also* subjects.
- Ordinance of 1787, text, 9378
- Ordinates, *see* Coordinates.
- Ordnance :
 - Civil War naval ordnance, 10239
 - engineering design handbook, surface-to-air missile series, 3736
 - ordnance manufacturing, industry trend, 9095
 - see also* Atomic ordnance—Fire control (gunnery).

Oregon :

- Agricultural Stabilization and Conservation Service, annual reports, 10472, 11841
- census of business, 1967—
 - retail trade, area statistics, 9108
 - selected services, area statistics, 15095
- central, pumice soils, can thinning slash cause nitrogen deficiency? 680
- Christmas tree directory for growers, wholesalers, and retailers, 14254
- climatological data, 262
- coast pilot, 297
- coastal tributaries, Pacific Coast basin, river mile index, 13308
- Federal careers in Northwest, 12042-43
- Federal outlays, report of Federal Government's Impact by State and county, 9569, 9618
- forest insect outbreaks, 671, 17014
- isotopic composition of diagenetic carbonates in marine miocene formations, 11246
- landings, fish and shellfish, annual summary, 7808
- mineral and water resources, report, 10906
- mineral industry, minerals yearbook chapter, 963
- national forests in Cascades, management direction for wilderness and primary recreation zones, 14269
- 1967 timber harvest, 4335
- northern, Cascade Range, juvenile height growth of four upper-slope conifers, 8306
- postal map, 17325
- precipitation data, hourly, 2962
- seafood moods, recipes, 16714
- southwestern—
 - Douglas-fir reforestation, economic guides, 5917
 - soil moisture tension variation on cut-overs, 4327
- three coastal forest types, nutrient cycling by throughfall and stemflow precipitation, 4326
- Walla Walla River basin, sediment transport by streams, 15817
- water supply—
 - outlook and snow survey, 3588
 - summary and outlook and snow survey, 17392
- Oregon Buttes area, Wyo., geology, 4348
- Oregon Trail, Lander Cut-Off, 1857, general information, guide, 12986

Ores :

- and primary products, Federal item identification guides for supply cataloging, supplements, 2848
- atomic-absorption methods of analysis useful in geochemical exploration, 17071
- deposits, Antonio dos Santos, Gongo Soco, and Conceicao do Rio Aelma quadrangles, Minas Gerais, Brazil, 5713
- Fifth ore zone, Carlsbad district, southeastern New Mexico, evaporite geology, 730
- on-stream analysis, nuclear techniques, 5166
- see also* names of metals or minerals.
- Oresund, sailing directions, change, 1241
- Organ Pipe Cactus National Monument :
 - general information, 1226
 - Milton Mine, historical and architectural data, 16275
- Organic Chemistry Section, National Bureau of Standards, July 1968-June 1969, summaries of activities, 16234
- Organic compounds :
 - esters and metal organics, technical grade, military standard, 4136
 - organic chemicals 2, trade and tariff information, summaries, 10433
 - synthetic chemicals, production and sales—
 - crude products from petroleum and natural gas, 6318
 - cyclic intermediates, 8913
 - dyes, 1467, 17416
 - elastomers, 1468, 14940
 - flavor and perfume materials, 4989
 - medicinal chemicals, 8914
 - miscellaneous chemicals, 7542
 - 1966, United States, 2512
 - pesticides and related products, 1469
 - pigments, 1470, 14941
 - plasticizers, 4990
 - plastics and resin materials, 6319
 - rubber-processing chemicals, 16495
 - surface active agents, 10434
 - tar and tar crudes, 6320
 - synthetic chemicals, production, preliminary report, 3266
- Organic matter :
 - organic extracts from JOIDES cores off northeastern Florida, 12779
 - separation and characterization of metallo-organic materials in petroleum, 11388
- Organisms :
 - adaption to hypoxia and resistance of organism, problem of space biology, 13148
 - benthonic, Wilmington submarine canyon, photographic investigation, 9198
 - fertilizer effects on food chain organisms and fish production in Norris Reservoir, Tenn., 1473
 - graph theory applied to aquatic organism communities, USSR study, 7132
 - metals eliminated from, by complexation, USSR study, 8497
 - USSR national radiation and organism conference, 2088
- Organization :
 - Office of Interstate Land Sales Registration, 9945
 - organizing and forecasting USSR science, philosophical problems, 2093
 - see also* Planning.
- Organization charts :
 - Air Force, 2576
 - Army Department, 2955
 - Federal executive departments and agencies, 8071
- Organization for CAS, 1770
- Organization for Economic Cooperation and Development, general information, 14905
- Organization of African Unity, 7489
- Organizations :
 - community, involvement with employment of mentally restored (periodicals), 3009

- Organizations—Continued
contributions to which are deductible for income tax purposes, list, 12830
supplements, 2722
income tax deduction for contributions, 5768
tax exemption, how to apply, information, 8432
USSR, research organizations, public health work of, study, 15368
volunteer organization, role in legislative process, Michigan minimum wage campaign, 5007
withdrawal of cash from Treasury for advances under Federal programs, regulations, 8918
see also International organizations—Nonprofit organizations.
- Organized crime, *see* Crime and criminals.
- Organochlorine pesticides in environment, 7473
- Organophosphorus compounds, insecticides, methods of analyzing trichlorometaphos and carbophos in aerosol containers and in air, USSR study, 15954
- Oriel, Steven S., geology of Fort Hill quadrangle, Lincoln County, Wyo., 9902
- Oriental art, *see* Art.
- Orientation:
and craft skill training, Post Office Department personnel handbook, 2395, 11593
automatic data processing, training, 10516
photo scale and orientation, effect of disparity on change detection, 13666
space oriented concepts for science and mathematics curricula for intermediate grades, 11401
see also Echolocation (physiology).
- Orifices, thick plate, with approach flow perpendicular and inclined to orifice axis, discharge coefficients, 16199
- Orifices (aircraft), *see* Jets.
- Orion (vessel):
coastwise privileges, authorize, 9394
- Orleans, Vt., relief, 9395
- Ornamental vines, *see* Vines.
- Ornamentation, *see* Decoration and ornament.
- Ornithology, *see* Birds.
- Orofino, Idaho:
flood plain information, 9683
floods, 9707
- Orogeny, systematic jointing in western part of anthracite region of eastern Pennsylvania, 4351
- Orosz, Ivan, some nondestructive parameters for prediction of strength of structural lumber, 4322
- Orphans, veterans children, increase dependency and indemnity compensation, reports, 15379, 16771
- Orr, Martha L., pantothenic acid, vitamin B₆ and vitamin B₁₂ in foods, 13591
- Orrall, F. Q., spectrophotometric standards for 1962 total solar eclipse, 1536
- Orrick, William H., jr., shut it down! college in crisis, San Francisco State College, 13227
- Orshansky, Mollie, progressing against poverty, 2457
- Orta, Martiniano L., relief, 4022
- Orth, R. C., interaction and penetration of gaseous jets in supersonic flow, 13047
- Orthostatic tolerance, in experiments with simulation of weightlessness, mechanisms of reducing, USSR study, 5832
- Orton, Robert B.:
climates of States, Texas, 12560
Kerrville, Tex., climatic summary, 11021
- Osborn, Ben O., soil conservation, devoted to wise use of land and water resources, 3443
- Osborn, Dale J., habitats, flora, mammals, and wasps of Gebel 'Uweinat, Libyan Desert, 13423
- Osborn, Kenneth W., Gulf of Mexico shrimp, atlas, 9224
- Osborn, Walter M., effects of 3 outlet-annulus area blockage configurations on performance of 20-inch (50.8-cm) axial-flow compressor rotor, 17249
- Oseola County, Mich., soil survey report, 11676
- Oscillations:
analysis, in pulse-modulated satellite attitude control systems, 13040
continuity-equation plasma, oscillation to pulsars and other periodic astrophysical phenomena, possible applications, 7264
described by continuity equations of slightly ionized deuterium, neon, and helium gas, experimental observation, 2250
dynamic response of liquid jet atomization to acoustic oscillations, analysis, 13117
lateral cable, of cable-connected space stations, 7279
liquid-rocket longitudinal oscillation (pogo), prevent by use of simplified analytical model in design of pump-inlet accumulators, 14638
magnetothermal, in pressure-annealed pyrolytic graphite, 17236
oscillatory flow, bed forms generated in laboratory under, analytical and experimental study, 15648
plasma oscillations in Stellarator L-1, quasi-steady electric fields, studies, 10566
thin airfoils oscillating near stall—data report, 6460
wind tunnel tests, summary and evaluation, 6459
see also Vibration.
- Oscillators:
cyclotron resonance, design considerations, 11463
Gunn effect and its applications, USSR study, 12922
particle-oscillator collision applied to gas-surface interactions at cryogenic temperatures, quantum theory, 2269
- Osmolality, unstimulated human parotid fluid, 15021
- Osmosis:
porous glass membranes for reverse osmosis, research, 2007
reverse—
characterization of cellulose acetate membranes and ultrathin films, 15866
desalination—
membranes, development, 804
methods to retard compaction of cellulose acetate membranes, study, 15861
plants, pumping and energy recovery systems, 15855
unit at Webster, S. Dak., operation, 8420
design, fabrication and testing of 1000 gallon per day tubular reverse pilot plant, 9966
development of improved cellulose acetate membranes for, 4405
50,000 GPD portable pilot plant, design and fabrication, 9969
low pressure, membranes and design of small unit for brackish water, development, 11282
membranes—
cells, new design concept, 15854
containing graphitic oxide, 9961
module, spiral-wound concept, 11283
new candidates for application synthesis and evaluation, 2010
regeneration, 15864
rejection of various solutes, study, 11285
thin-liquid-film unit for desalination, development, 9962

Osmosis—Continued
reverse—continued
mobile pilot plant, field operation, 9963
new and improved cellulose ester membranes, development, 8422
new membrane candidates for application in synthesis and evaluation, 15857
operation of 50,000 gpd portable pilot plant, 12825
operation of pilot plants, 9964
permeators, design study, 9965
pilot plant for desalination of sea water, 11286
10,000 GPD, spiral module pilot plant, San Diego, Calif., test, 14406
tubular units, process and configuration development, 11280
water desalination, concentration polarization control, 15863
water purification systems, development, 9956

Osmotically induced coalescence of sarcoma cells through intercellular bridges in vitro, 4745

Osteology, turkeys, atlas, 196

Osteopathic physicians, employment outlook, 4530

Ostracoda, see Crustaceans.

Ostroff, Aaron J., designs of electronically scanned star sensor with digital output, 11483

Ostrom, Arnold J., timber volume in Indiana, 11172

OSTS, see State Technical Services Office.

Oswald, Daniel D., timber resources of Humboldt County, Calif., 4334

**Otepka, Otto F.:
nomination—
hearings, 8080, 9477
report, 9386**

Ott, R. H., terrain effects on antenna radiation patterns, analysis of scattered fields, 11026

Ouachita County, Ark., community profile, 15588

Ouachita River, flood plain information, 9684

Oudine, John A., all hands, Naval Personnel Bureau career publication, 2586

Oulema melanopus, see Beetles.

Our Capitol, 15391

Our crowded airways, cause & cure, 12597

Our Federal tax system, 8435

**Our Nation and the sea, 12235
plan for national action, 5333, 6164**

Our Navy in action, color prints, 10240

Our need is so great, our objectives so reasonable, our resolve so determined (remarks), 13507

**Outagamie County, Wis.:
flood plain information, 15657
floods, how to avoid damage, 15654**

Outdoor recreation, see Recreation.

Outdoor recreation action (periodical), 3231

**Outdoor Recreation Bureau:
appropriations, 1970,
hearings, 7946
reports, 12171, 15398, 16793
grants-in-aid manual, 4836
press releases, 3315**

Outdoor safety tips, 53

Outer Continental Shelf lands and act, see Continental shelf.

Outer Mongolia, Mongolian People's Republic, capsule facts for Armed Forces, 111

**Outer space:
activities in science teaching related to space, 11399
activities of Federal departments, etc., investigation, authorization, report, 4048
aerospace—
applications, effects of prolonged reduced pressure on growth of turnip, 3705**

Outer space—Continued
aerospace—continued
civilian career opportunities, Navy Department, 2360
companies, backlog of orders, current industrial reports, 224, 2733
control systems, manuals, synthesis methods for, with applications to SST design, 2191
leadership, careers for officers, Air Force, guide, 67
rations, computer programming of, 6418
related technology for industry, conference, proceedings, 13062
speechmaking guide, 16564
teammates, dietitian, physical therapist, occupational therapist, 7619
technology positions with NASA, 15134
aerospace safety (periodical), 2559
America in space, the first decade (series), 8604
America's next decades in space, report, 17195
Apollo—
"First manned lunar landing," color prints, 14593
"In the beginning . . .", color prints, 13056
"Man on the moon," color print, 14594
astronauts extravehicular work capabilities in weightless conditions, study, 10080
aviation and space activities, provide Federal jurisdiction and body of uniform Federal law for aircraft crash litigation, hearings, 12306
Brayton-cycle space power application, 1-megawatt reactor design—
neutronics design, 4740
thermal analysis and core design, 4739
CO₂ laser development for space applications, survey, 1057
code of Federal regulations, 6954, 8220, 11117
conference on electromagnetic exploration of moon, report, 14596
flare fresh solar plasma in interplanetary space front, apparent local jump in momentum transfer rate, 10249
future NASA programs, hearing, 14011
geophysics and space data bulletin, 2938
how far a star, space oriented concepts for science and mathematics, curricula for intermediate grades, supplement, 11401
integrated life support system for aerospace application utilizing radioisotopes for thermal energy, design study, 3799
Jupiter swingby missions to nonspecific locations in interplanetary space, 11477
launch vehicles for peaceful exploration of space, 13055
linking man and spacecraft, 11422
living in space, NASA facts, 11424
man in space, 10094
3d International Symposium on Basic Environmental Problems of USSR papers, 5821
medical benefits from space research, 4691
men of Apollo crews 7 through 11, color prints, 13057
modular extravehicular activity work platform, study, 10091
NASA space art—"Eyewitness to space," color prints, 14592
national aeronautics and space act of 1958, as amended and related legislation, 17257
national space program, views of leading industrial executives, survey, 421
nutrient-defined formula diets for aerospace metabolic experimentation, 87
OAR research review (periodical), 3212
perception of space and time, 10162
putting satellites to work, space applications, 11421

Outer space—Continued
 radiobiological experiments on Cosmos-110 biosatellite, USSR, 865
 reentry behavior of PuO_2 microspheres analyses and experiments, collation and experiments, 5184
 rescue and return of astronauts and return of objects launched into space, agreement, 4978
 analysis and background, 1729
 research, investigation—
 authorization, report, 6652
 expenses, report, 6678
 scientific and technical aerospace reports, 3413
 indexes, 3414
 shadow shields for thermal protection of cryogenic tanks, experimental studies, 1106
 simulation of Gemini extravehicular tasks—
 by neutral-buoyancy techniques, 11462
 with flight results, correlation study, 5970
 Soviet bloc research (periodical), 3446
 space applications, mercury cadmium telluride as 1- to 20-micro-meter wavelength infrared detector, 1121
 space cooperation, agreement with Japan, 16476
 space feeding systems, nonenzymatic browning containing sucrose, 92
 space flight handbooks, 11426
 space geodesy altimetry study, 7234
 space nuclear program, AEC authorizing legislation, 1970, hearings, 9243
 space physics and astronomy, 11420
 space research programs, earth resources, cooperative research in remote sensing for earth surveys, agreement with Mexico, 7497
 surface temperature of paraboloidal solar concentrators, parametric analysis, 8628
 unique altitude chamber for infectious disease research under aerospace profiles, 3702
 United States activities, report 1968—
 departmental edition, 8661
 document edition, 7844
 upper atmosphere and space, USSR research, 12937
 use of submillimeter waves in space, problems and programs, 1040
 USSR—
 achievements, 1957-67, 1st decade in space, 4442
 space research programs—biomedical research, 12939
 see also Life support systems—also headings beginning Space.
 Outgassing, rate-of-rise outgassing-measurement technique, experimental study, 4711
 Outlet works, see Reservoirs.
 Outlook for U.S. shipbuilding, 16048
 Outlying possessions :
 Federal general data standard, representation and code, 6043
 U.S. trade, monthly report, 2912
 Outpatient services, see Clinics.
 Output, see Production.
 Overcoats, see Coats.
 Overmyer, D. H., Co. :
 television construction permits, acquisition and transfer—
 hearings, 7961-62
 report, 9303
 Overruns (logs) :
 southern yellow pine tree overruns and lumber width distributions, 1935
 Oversea service :
 Defense Department's dependents schools, educator's opportunities, 556A
 dependents traveling to overseas areas, information, pamphlet, 171
 Federal jobs overseas, 15147

Oversea service—Continued
 housing, building and planning, overseas missions, bibliography, 15838
 information about jobs overseas, questions and answers, 4197
 overseas U.S. agencies, effectiveness in meeting supply requirements, GAO report, 14314
 Overseas business reports, 312-313, 1654-61, 3233, 3893-3904, 5287-92, 6540-43, 7799-7804, 9200-11, 10645-649, 12068-70, 15167-172, 16706-708
 Overseas Private Investment Corporation, create, hearings, 10780, 12218, 13928, 15316
 Overseas shipping tests of California citrus on pallets and in containers, interrelations between transit temperatures, biphenyl pad placement, biphenyl content, and fruit condition, 16547
 Oversight of oil development activities in Alaska, 14046
 Overtime, see Hours of labor.
 Oviatt, Alfred E., Jr., moisture content of glulam timbers in Pacific Northwest, 8283
 Owens, J. C., development of microwave modulated, dual optical wavelength geodetic distance measuring instrument, 12572
 Owens, James M., address, Feb. 19, 1969, 5200
 Owston, Peyton W., development of radioisotope procedures for measuring water movement in trees, 16629
 Oxbow Transport Company, accident, report, 4817
 Oxidases, monoamine oxidase and diamine oxidase inhibitors on norepinephrine and histamine in rat heart, effect, 11903
 Oxidation :
 anodic—
 hydrogen on iron and platinum in sodium hydroxide solution, 6137
 3 representative oxides, 1269
 aqueous, of mild steel, study of hydrogen evolution, 14750
 batch-feeding studies on high-solids activated sludge for treating concentrated human waste, 3708
 diffusion-limited, liquid-phase oxidation of n-dodecane at 200° C, 10250
 flow reduction due to oxidation of wire-form porous sheet for transpiration cooled turbine blades, analytical study, 4729
 high-temperature—
 deformation of nickel, proposed model for effect of oxidation, 10153
 protection of tungsten, 16210
 light-catalyzed chlorine oxidation for treatment of wastewater, investigation, 15744
 microbiological, of petroleum hydrocarbons, chemistry and physicochemical properties of process, USSR study, 12876
 nitridation-oxidation protection of chromium alloys by use of silicide, aluminate, and boron coatings, exploratory study, 11448
 oxidation and thermal fatigue cracking of nickel and cobalt-base alloys in high velocity gas stream, 14624
 resistant alloy claddings for IN 100 and WI 52 superalloys, evaluation, 17232
 resistant materials for transpiration cooled gas turbine blades, wire specimen tests, 1012
 role of degree of crystal development, crystallographic data on selected artificial graphites, 1107
 thermal oxidatively stable Pyrrone laminates experimental feasibility study for preparation, 13052
 vapor-phase oxidation of hydrocarbons, 13284

Oxide cathodes, *see* Cathodes.

Oxides:

- extraction of copper from, using iron and steel scrap, principles and application to pure systems, 16101
- rare earth, exploratory study of their use as solid lubricants at temperatures to 1800° F (1000° C), 11490
- see also* oxides by name, e.g., Graphite oxides.

Oxygen:

- absorption rate sticking probabilities, on columbium and dilute columbium zirconium alloys, 1105
- errata, 4703
- acoustic-mode instability in hydrogen oxygen rocket, effect of injection element, radial distribution and chamber geometry, 14623
- concentration, effect on—
 - advanced ester lubricant in bearing tests at 400° and 450° F, 13082
 - performance of synthetic paraffinic oils in short term bearing tests from 400° to 500° F, 10111
 - platinum-catalyzed combustion and ionization, 13284
- consumption and hydrogen production by shrink-resistant grouts in confined places, 10067
- determination in lithium by vacuum distillation method, 8646
- effects of losses on magnetic and crystallographic properties of spinel lithium ferrite, 7307
- elastic scattering of 21 MeV protons, 1138
- factors for phytoplankton blooms and effects on dissolved oxygen in Duwamish River estuary, Seattle, Wash., 7061
- helium mixture at simulated altitude and room air at ground level, comparison of speech recordings in, 5083
- helium-oxygen environment, blood of subjects exposed at 7 atmospheres pressure, carbonic anhydrase analyses, 16061
- helium-oxygen saturation and excursion dive to simulated depth of 900 feet, performance effects of increased ambient pressure, 8576
- hydrogen-oxygen electrolytic regenerative fuel cells, 10069
- in tantalum, solubility and diffusion, 5978
- liquid oxygen/liquid hydrogen explosive effects in controlled failure mode tests, 14629
- liquid rocket acoustic-mode-instability studies at nominal thrust of 20,000 pounds, interim summary, 2262
- methane-fluorine-oxygen and butene-1-fluorine-oxygen rocket performance, nonequilibrium calculations, 4721
- oxygen-enriched atmospheres, flammability of skin and hair, 10525
- oxygen is dangerous, life saver card, 2106
- partial pressure sensors, thin film, investigation, 1010
- regeneration, solid electrolyte system, 11413
- round robin—
 - analysis for, in potassium and sodium, evaluation of results, 4709
 - evaluation for, in potassium and sodium, evaluation of results, errata, 11434
- water oxygen demand, report of study, 2434

Oxygen difluoride, oxygen difluoride-diborane rocket propellant theoretical nonequilibrium performance, 4722

Oyster Bay, marine biofouling studies in Montego and Oyster Bays, Jamaica, oceanographic cruise summary, 13253

Oysters:

- certified shippers, list, 2651
- chlorinated pesticides and estuarine environment of Mobile Bay area, study, 11637

Oysters—Continued

oyster mortalities, with particular reference to Chesapeake Bay and Atlantic Coast of North America, 1669

Ozark Air Lines, Inc., aircraft accident, 14717

Ozark Lock and Dam:

- and lock and dam no. 9, engineers report—departmental edition, 4211
- document edition, 4008

Ozark Mountains:

- Ozark range and wildlife plants, 5027
- Ozarks rural residents, impact of economic opportunity loans, 1800
- poor returns from Ozark woodland grazing, 4306

Ozark National Scenic Riverways, general information, 17290

Ozarks region, Ozark gateway district, preliminary economic analysis, 14124

Ozarks Regional Commission:

- annual report, 4837
- Federal Cochairman, nomination of B. L. Stewart, hearing, 8091
- press releases, 3316

Ozone:

- ozonesonde observations 1962-66, measurements, 615
- treatment of secondary effluents from waste water treatment plants, 15745
- Ozonesondes, observations over North America, 1532

P

P.H.S., *see* Public Health Service.

P.P.C. series, 3234

P-series Navy Lighted (N.L.) equipment, pontoon gear handbook, 13209

P.A. series, 51-55, 1515-16, 3663-66, 5058-61, 6394-98, 7606-12, 8976-88, 10492-495, 11876-884, 13597-602, 14999-15003, 16552-554

Paananen, Roy, compilation of data from related technologies in development of optical pilot warning indicator system, 10120

Pablo National Wildlife Refuge, general information, 13459

PACE (Projects to advance creativity in education), *see* Elementary education—Secondary education.

Pacesetters in innovation, 5550

Pacific, Mo.:

- flood plain information, 9678
- floods, how to avoid damage, 12506

Pacific area:

- climatological data, 2662
- East Asian and Pacific series, 1439-40, 10410, 13472, 16463-464
- opinions of Asian and Pacific leaders on Vietnam war, 132
- Pacific chart supplement (periodical), 3235
- savings available by using space on military aircraft to transport baggage between U.S. and Southeast Asia, GAO report, 9879
- social science research, special papers available, 17403
- U.S. role in Pacific community (address), 16464
- water resources data, 8367

Pacific Coast:

- basin, river mile index, coastal tributaries—
 - Oregon, 13308
 - Washington State, 13309
- coast pilots—
 - Alaska, Cape Spencer to Beaufort Sea, supplement, 5278
 - Alaska, Dixon Entrance to Cape Spencer, supplement, 5277
 - California, Oregon, Washington, and Hawaii, 297, 7787
 - eastern, 1888-1966, halibut fishery, 13820

Pacific Coast—Continued

- light list, 5281
- nautical chart catalog, 7789
- North America and Asia, tidal current tables, 13798
- synopsis of biological data on Pacific mackerel, *Scomber japonicus* *houltuyn*, 7812
- waterborne commerce—
 - 1966 calendar year, 8183
 - 1967 calendar year, 8184
- zooplankton, 1969, volumes, 7815
- see also Pacific States.
- Pacific Crest National Scenic Trail, general information, 12690
- Pacific Islands:
 - light list, 5281
 - lights and fog signals, list, changes, 6127, 13264, 17301
 - mineral industry, minerals yearbook chapter, 965
 - sailing directions, changes, 1244, 4822, 6124
 - South, mineral industry, minerals yearbook chapter, 5944
- Pacific Islands Trust Territory, see Trust Territory of Pacific Islands.
- Pacific mackerel, see Mackerel.
- Pacific Northwest, see Northwest (U.S.).
- Pacific Northwest Forest and Range Experiment Station:
 - annual report, 11158
 - publications, lists, 3073, 15749
- Pacific Northwest River Basins Commission:
 - report, 5332
 - review of power planning in Pacific Northwest, 11573
- Pacific Ocean:
 - Aleutian abyssal plain, SEAMAP deep-sea channel, 6917
 - central and western, tide tables, 13799
 - central, billfishes, 10665
 - eastern tropical, Scripps Tuna Oceanography Research Program methods used to determine incident solar radiation, submarine daylight, etc., 5302
 - north—
 - Loran-C table, pair SL-2X, 2338
 - sea surface temperature, 1949-62
 - monthly mean charts, 5297
 - northeastern—
 - fisheries off United States coast, agreement with USSR, 7517
 - fishing operations, agreement with USSR, 7518
 - sound velocity cross sections of world's oceans, 13236
 - northwestern—
 - bathymetric atlas, 14736
 - Loran-C table, pair SS3-Z, 14734
 - radio navigational aids, 2337, 10237
 - south, Loran-A table, rate 2L2, 14732
 - western, lights and fog signals, list, 1245, 7373, 16302
- Pacific Oceanographic Laboratories:
 - ESSA technical memorandums, RLTM-POL series, 614
 - ESSA technical report ERL-POL series, 6917, 8187, 14168-169
- Pacific Oceanographic Research Laboratory, bathymetry of region (PORL-421-2) north of Hawaiian Ridge, 8187
- Pacific Railroad, origin, building, etc., 8725
- Pacific Southwest, see Southwest (U.S.).
- Pacific Southwest Forest and Range Experiment Station:
 - FAMULUS, computer-based system for augmenting personal documentation efforts, 17036
 - publications, list, 8288
 - research, 8318
- Pacific States:
 - collective bargaining calendar for 1968, Pacific region, 901

Pacific States—Continued

- commercial strawberry growing, 1504
- truck inventory and use survey, 5207
- Pacification in Vietnam, 13472
- Pacilio, Nicola, reactor-noise analysis in time domain, 9071
- Packaged disaster hospitals, see Hospitals.
- Packages:
 - cushioned, container effects, urethane foam corner pads, 17037
 - procurement data packages, military standard, 1791
 - simulation of package transfer concepts for Saturn I orbital workshop, 10107
 - symbols for hazardous industrial chemicals and materials, military standard, 14108
- Packaging:
 - converted flexible products, current industrial reports, 3840
 - fair packaging and labeling act—
 - enforcement regulations, 1902
 - food packaging and labeling regulations, synopsis, 5658
 - laws, compilation, 5458
 - Federal item identification guides for supply cataloging, supplements, 2844
 - fresh meat, evaluation of selected wrapping films, 7569
 - how to pack and wrap parcels for mailing, 7399
 - industry report, 2703
 - materials, Federal test method standard, 12651
 - packaging and packing operations, instructor's guide, Army Dept. pamphlet, 10550
 - packaging panorama-U.S.A. (address), 214
 - packaging effect on society, Government view (address), 215
 - plastics packaging, structure, growth patterns and prospects, 6486
 - procedures for parts and equipment, military standard, S135
 - produce in trays at central warehouse, 3646
 - requirements code, military standard, change, 5503
 - role in solid waste management, 8814
 - weapon packaging, handling, storage and transportation preparation, performance and compatibility requirements, military standard, 549
 - see also Packages—Packing.
- Packard, David, nomination, hearings, 4071
- Packard, Richard D., mercury cadmium telluride as 1- to 20-micron wavelength infrared detector for space applications, 1121
- Packers, packers and stockyard résumé, 3239
- see also Packing industry.
- Packers and Stockyards Administration:
 - appropriations, 1970—
 - hearings, 7945
 - reports, 9311, 12254
- Packing:
 - converted flexible packaging products, current industrial reports, 2732
 - joint packing, classification definitions, 11581
 - materials, Federal test method standard, 12651
 - optimum, of hollow spheres in buoyancy materials, 14752
 - packing and packing operations, instructor's guide, Army Dept. pamphlet, 10550
 - preservation, packaging and packing of military supplies and equipment, DSA manual, 14083, 15493
 - supplies, Federal item identification guides for supply cataloging, 2844
 - see also Packages—Packing—also names of articles packed.

Packing industry:

- Federal facilities requirements for small existing meat plants, 9500
- meat packing plants, U.S. Inspected, construction, equipment, etc., guide, 14985
- packers and stockyards act—
as it applies to auction markets, 11878
- can help you recover losses, 13598
- what it is, how it operates, 13597

Packing materials:

- Federal item identification guides, 533, 8122, 16914
- packing, trade and tariff information, summaries, 1461
- shingle tow packing material for conifer seedlings, investigations, 692

Padre Island National Seashore:

- appropriation of funds, authorize—
law, 12127
- reports, 10723, 12251

Padrick, Jack O., address, June 26, 1969, 10644

Paducah East quadrangle, Ky., engineering geology, 4349

Page, James F., survey of Puerto Limon, Costa Rica, under harbor survey assistance program, 13256

Page, Louise, food and your weight, 13590

Page, Norman J., platinum, palladium, and rhodium analyses of ultramafic and mafic rocks from Stillwater complex, Mont., 9894

Pahute Mesa, Thirsty Canyon Tuff, area 20, Nevada test site, U20u satellite holes, geologic data and studies of orientation of joints, 9896

PALGH, see Pan American Institute of Geography and History.

Pails, steel shipping, current industrial reports, 2732, 3856, 12006

Paine, Thomas O., nomination, hearing, 5424

Paint:

- current industrial reports, 2732
- Federal item identification guides for supply cataloging, supplements, 2847
- fire-retardant system for nuclear submarine interiors, 14749
- paints and protective coatings, Army technical manual, 7665

Painter, John H., analytic function models of noise and modulation, 13140

Painters:

- automobile, employment outlook, 4478
- employment outlook, 4486
- Job Corps training standard, 5521
- production painters, employment outlook, 4506

Painting, exterior, general information, 41

Painting books:

- good foods coloring book, 8988
- Spanish edition, 15001

Paintings:

- NASA space art—eyewitness to space, color prints, 14592
- reproduction of paintings, Army art collection, 17167

Paints, see Paint.

Pakistan:

- accessions list, Library of Congress American Libraries Book Procurement Centers, Karachi and Dacca, 3240
- quinquennial index, 5918
- agricultural commodities, agreement, 149930
- background notes, 14892
- China boundary, study, 2489
- East, potato industry, improving seed potato multiplication and storage, 12842
- economic trends and their implications for United States, 7109, 15886
- India boundary, Rann of Kutch sector, study, 4964
- mineral industry, minerals yearbook chapter, 14541
- selected unclassified references, 11907
- U.S. foreign aid program, report of special study mission, 1699

Pakistan—Continued

- West—
forestry management, 12859
- Indus Plains, evaluation and control of corrosion and encrustation in tube wells, 7058
- preliminary evaluation, 14343
- stomatopod crustacea, 1209

Pakulis, Eugenia, National Oceanographic Data Center newsletter, 3167

Palanquin project, see Project Palanquin (Plovershare program).

Paleobiology, Smithsonian contributions to paleobiology, 14859

Paleocene period, Paleocene and lower Eocene units in southern part of Piceance Creek basin, Colo., 8339

Paleontology, contributions to paleontology (series), 1970, 4367, 7055, 11245

Paleozoic era:

- element distribution in some Paleozoic black shales and associated rocks, 9885
- new formations in east-central Alaska, 11230

Palisades Reservoir, recreation map, 14280

Palfrey, Kennard M., jr., oceanography of Baffin Bay and Nares Strait in summer of 1966 and current measurements in Smith Sound, 1963, summer, 1648

Palladium:

- analyses of ultramafic and mafic rocks from Stillwater complex, Mont., 9894
- deuterium concentration, electrical resistivity as a function, 2264

Pallet trucks, see Motortrucks.

Pallets (materials handling):

- Appalachian hardwoods for pallets, effect of fabrication variables and lumber characteristics on performance, 17038
- overseas shipping tests of California citrus on pallets and in containers, 16547
- palletized and containerized unit loads, military standard, 16924
- palletizing domestic unit loads of weapon components, military standard, 16929
- potato storage 25,000 cwt. pallet box, farm building plan, 5053
- small and large load-bearing pallets for CH-54 flying crane helicopter, design, development, fabrication, and testing, 1591

wooden—

- Defense Department market, requirement, etc., 7021, 15769, 17046
- use in brewing industry, 17047

Palmby, Clarence D., address, June 30, 1969, 14982

nomination, hearing, 4068

Palmer, Edward L., can television really teach?, 14130

Palmer, J. S., toxicity of some organic herbicides to cattle, sheep, and chicken, 8989

Palmerola, Joaquin F., relief, 4019

Palouse River and Valley, south fork, flood plain information, 10998

Palsy:

- cerebral, signs, diagnosis, etc., hope through research, 10305
- talking books & cerebral palsy, 5923

Pa Mong project:

- lower Mekong River basin—
drainage investigations and requirements, report, 13397
- stage 1, interim report, 8831

Pamphlets, catalog of copyright entries, 516, 5471

see also names of departments, etc., issuing pamphlets.

Pan American Institute of Geography and History:

- participation of United States, appropriation authorized—
hearing, 10784
- report, 15273

- Panama:
background notes, 6269
beef cattle industry, 11155
capsule facts for Armed Forces, 118, 9020
economic trends and their implications for
United States, 8478, 17116
estuarine waters, initial fungus attack on
tropical woods, 10248
gazetteer, official standard names, 12753
route 17, Darien region, preliminary
meteorological data summary, inter-
oceanic canal studies, 613
sea level site, geological studies on route
10, agreement, 11713
- Panama Canal:
appropriations—
hearings, 12204
report, 15298
code of Federal regulations, 8233
Isthmian Canal demand forecast, economic
analysis of potential tonnage traffic,
14944
- Panama Canal review (periodical), 3241
Panama Canal Zone, *see* Canal Zone.
- Pancharatman, S., study of design-optimiza-
tion procedure for ion-exchange and ad-
sorption columns, 17099
- Pancreas, Isles of Langerhans, 1335
- Panel on Science and Technology:
10th meeting—
papers, 9371
proceedings, 6730, 12148
reprint, report, 10757
- Panels and paneling:
ablating thermostructural panel, struc-
tural synthesis of, 4662
acoustical absorption properties of wood-
base panel materials, 15761
poultry house, post and panel construc-
tion, farm building plan, 3652
stressed, effects of structural damping on
flutter, 4720
titanium skin-stringer panels, influence of
various fabrication methods on com-
pressive strength, 14634
- Pang, C. C., analysis and synthesis of mono-
pulse arrays with discrete elements, 4216
- Pankratz, L. B., thermodynamic data for fer-
ric sulfate and indium sulfate, 11393
- Pans, *see* Gold pan.
- Pantothenic acid, *see* Vitamins.
- Pao, Chia-Ven, stability theory of nonlinear
operational differential equations in Hil-
bert spaces, 10089
- Paone, James, drillability studies, laboratory
percussive drilling, 16100
- Papago Indian Reservation:
Ariz., demographic and socio-cultural
characteristics, 10298
premise and home environmental health
survey, 13361
- Papain, radioprotection of rodents with
papain, 10532
- Paper:
allied products industry, employment out-
look, 4585
and related products, trade and tariff in-
formation summaries, 14939
bond and writing, white and colored, Fed-
eral standard, cancellation, 4284
current industrial reports, 2732, 5211
Government specification standards, 2942,
13947
mills, industrial wage survey, 5896
industry—
employment outlook, 4585
report, 3349
manufacturing & printing, industry trend,
6484
trade and tariff information, summaries,
1460
- Paper birch, *see* Birch.
- Paper money, use of illustrations and mo-
tion-picture films and slides, 14851
- Paperboard:
current industrial reports, 2732
industry report, 3349
mills, industrial wage survey 5896
see also Pulpboard.
- Paperhangers, employment outlook, 4486
- Papers, *see* Records.
- Papers available, Foreign Affairs Research
Documentation Center, 2839
- Paperwork (office practice):
forms management, records management
handbook, 16222
managing emergency preparedness files,
Federal vital records program, records
management handbook, 8664
- Pappan, Josephine G., or heirs, relief, 9393
- Pappan, Julie G., or heirs, relief, 9393
- Pappan, Victore G., or heirs, relief, 9393
- Parabolic antennas with cross-polarized
fields, USSR, 5834
- Parachute jumping, *see* Parachuting.
- Parachutes:
flight-dynamics of general parachute-pay-
load system, mathematical model for
calculating, 2227
lofts, Federal aviation regulations, 4243,
12584
nylon parachute cloth, coding, manufac-
turer's color, military standard 545
personnel—
assembly and rigging procedures, mili-
tary standard, 8136
testing standard for, military standard,
14102
three configurations, inflation and per-
formance from supersonic flight tests in
low-density environment, 11487
- Parachuting:
endocrine-metabolic responses, 103
parachute jumping, Federal aviation regu-
lations, 14186
- Paracolon, citrate mannitol agar medium for
separating *Escherichia coli* paracolons
from *Shigella*, 83
- Paradiso, John L., mammals of Maryland,
13451
- Paraffins, synthetic paraffinic oils in short
term bearing tests from 400° to 500° F,
effect of oxygen concentration on perform-
ance, 10111
- Paraguay:
agricultural commodities agreement, 11718
14912
Armed Forces, nutrition survey, 2428
capsule facts for Armed Forces, 5093
economic trends and their implications for
United States, 8473, 17111
- Parahydrogen, *see* Hydrogen.
- Paralyzed Veterans of America:
incorporate, 13864
legislative recommendations 1969, hear-
ings, 6731
- Paramagnetic resonance, *see* Magnetic
resonance.
- Parameters:
affecting firing time of simultaneously trig-
gered trigatron spark gap switches,
7263
application of pressurized liquid nitrogen
inside parametric-amplifier structures
for input-noise-temperature improve-
ment, 17250
blood, simultaneous measurement, using
radiochromium-labeled red cells and
radioiron-labeled plasma, 3712
combination effects of tone and duration
parameters on perceived noisiness 5981
combines Newton-Raphson and gradient
parameter correction technique for solu-
tion of optimal-control problems, 1147
complex, Mathieu's equations for tables of
characteristic values, 15015
computing useful frequency range of piezo-
electric accelerometers, considerations,
11525

Parameters—Continued
 design, and cost of heat exchangers, evaluation of computer usage—
 with change in phase on shell side, 11381
 with no change in phase, 4620
 effect of growth parameters on substructure spacing in NaCl ice crystals, 9030
 internal wave parameters and ocean turbulence, USSR study, 8502
 long-term operational, of high-frequency sky-wave telecommunication systems, predicting, 11027
 microwave systems using terminal invariant parameters, description and evaluation 17262
 nondestructive, for predilection of strength of structural lumber, 4322
 orbital perturbing, method of deriving, from onboard optical measurements of ejected probe or natural satellite, 14584
 parametric analysis—
 microwave and laser systems for communication and tracking, summary, 8657
 surface temperatures of paraboloidal solar concentrators in space, 8628
 parametric angle of trajectory-determined field line intersects predicting location of artificial auroras, 13074
 parametric interaction of superhigh frequency field with plasma, theory, 15071
 parametric study of blade-motion stability boundaries for articulated rotor, 6002
 physical, effect on reaction of graphite with silica in vacuum, 2174
 plasma parameters produced by super high-frequency power in magnetic field steady-state condition, determination, 15064
 real-helium hypersonic flow for pressures to 3600 atmospheres and temperatures to 15 000° K, 1092
 time variable parameters, estimation, by use of integral transforms, 8644
 to be controlled for specification of microcircuits, military standard, 14106
 ultrasonic propagation measurements, systematic errors, effect of finite thickness elastic solid liquid cylinder of interest, tubes enclosing, 10265
 variations analysis, practical reliability, 998
 Paraplegics:
 veterans, housing program, modify eligibility requirements—
 law, 10684
 reports, 6764, 9294
 Parasites:
 cotton insect, rearing in laboratory, 13065
 freshwater fishes, 1410
 internal parasites of hogs, preventing and controlling, 6378
 intestinal—
 diagnosis, laboratory procedures, 17341
 of man, morphology of diagnostic stages, 16355
 nematoda and acanthocephala, subject catalog, 13543
 protozoa, subject catalog, 1498
 subject catalog, 10462, 13542, 13544
 Parasitology, medical and veterinary zoology, index-catalogue, 1498, 13543
 Paratuberculosis in animals, John's disease, eradication in cooperation with States, summary, 3478
 Parawings, see Wings (aircraft).
 Parcel post, mailing, how to pack and wrap parcels for, 7399
 Parents:
 Children's Bureau publications for parents list, 13776
 Head Start involvement, workbook of training tips for staff, 9638

Parents—Continued
 parent and child centers, guide for development, 6849
 partners in Health, Education, and Welfare Dept. programs for children and youth, report, 761
 tax information for students and parents, 8143
 unmarried, services to—
 effective patterns (speech), 3865
 national trends (speech), 3866
 Parents and teachers associations, see Educational associations.
 Paris, France:
 airshow, international marketing display, report, 15332
 Vietnam and Paris negotiations—
 postscript, 8066
 reports, 469-470
 Park, Alice F., direct molded sole boots, 3758
 Park, B. Nam, Korean, basic course, 11709
 Park, Susan F., basic data on economy of Zambia, 3901
 Park, William G., heavy oil reservoirs in Arkansas, 17174
 Park County, Colo.:
 geology and beryllium deposits of Lake George (or Badger Flats) beryllium area, 12781
 geology and ore deposits of southern Tarryall region, Park and Jefferson Counties, Colo. (series), 12781
 Park County, Mont., Gardiner area, geology, 11232
 Parka project, see Project Parka (Pacific Acoustic Research Kaneohe-Alaska).
 Parker, C. D., feasibility study of miniature solid-state pressure transducer, 14415
 Parker, Donald H., design and production of H.O./B.C. chart, 13234
 Parker, Ed., our public lands (periodical), 3230
 Parker, John G.:
 rare-earth minerals and metals, 16096
 titanium, 16109
 zirconium and hafnium, 14562
 Parker, Lee W., theory of circular planar (guardring) Langmuir probe, 6914
 Parker, Richard J.:
 effect of oxygen concentration on—
 advanced ester lubricant in bearing tests at 400° and 450° F., 13082
 performance of synthetic paraffinic oils in short term bearing tests from 400° to 500° F., 10111
 rolling-element fatigue life of austempered M-50 steel balls, 2253
 Parking areas, Government parking facilities, improvements in management by General Services Administration, GAO report, 11216
 Parking of vehicles, parking on House side of Capitol, select committee to regulate, create, report, 6663
 Parkinsonism:
 Parkinson's disease—
 hope through research, 16343
 present status and research trends, 11539
 Parkinson's disease, see Parkinsonism.
 Parkman, M., solubility and diffusion of oxygen in tantalum, 5978
 Parks, Edwin J., evaluation of certain methods for chemical analysis of Styrene Butadiene rubber, 11524
 Parks:
 Federal lands for parks and recreation act of 1969, report, 10850
 land and water conservation fund act of 1965, amend, report, 10850
 Project Skywater special park range cooperative experiment, summary report, 14827
 yours to preserve, on-the-job guidelines for park conservation, 13200
 see also National parks—also names of parks.

- Parlett, Lysle P.:
 wind-tunnel investigations of—
 large jet transport model equipped with
 external-flow jet flap, 2238
 STOL aircraft configuration equipped
 with external-flow jet flap, 14617
- Parole, pilot study of correctional training
 and manpower, 4928
- Parotid fluid, *see* Saliva.
- Parrinello, Joseph, computed programs and
 subroutines for automated cartography,
 10221
- Parsons, Edward W., load loss from rock-bolt
 anchor creep, 4641
- Participation and partnership, 582
- Participation of the poor in community de-
 cision-making process, 15536
- Participation sales act, *see* Credit.
- Particle accelerators, *see* Accelerators.
- Particle board, *see* Pulpwood.
- Particles:
 arbitrary colloidal, water, electro-optical
 method for proving surface nature of
 rigid electric dipole, USSR study, 4435
 behavior of large particles falling in quies-
 cent liquids, 5719
 coal-pyrite particle association in steam
 coals, and pyrite size distribution, 4650
 coated cermet of uranium nitride and
 tungsten or molybdenum, fabrication,
 7294
 free-field particle motion from nuclear ex-
 plosion in salt, Project Dribble, Salmon
 event, 9074
 hard, diffusion law for dispersion, in ice
 matrix that undergoes simple shear de-
 formation, 3744
 hypervelocity impact, effects on perform-
 ance of N/P silicon and cadmium sul-
 fide solar cells, 8625
 influence of electric field on motion, in
 helical fields, 16608
 minerals of small particle size, magnetic
 separation, 14555
 motion—
 in helical fields having equipotentials
 coinciding with magnetic surfaces,
 5140
 transit particles in system with a mini-
 mum B, 5138
 particle-oscillator collision applied to gas-
 surface interactions at cryogenic tem-
 peratures, quantum theory, 2269
 refractive index-particle density correla-
 tion for nonequilibrium cesium plasmas
 probed by multifrequency helium-neon
 laser, 11498
 with refractive index 1.5, tables of mie
 scattering functions, 7282
see also Alpha particles.
- Particulate matter, *see* Matter.
- Partners in the future, ships and ports,
 14488
- Partnership for health, 6195
- Partnership for library progress, 10984
- Partridges:
 chukars, habitat management, 16427
 gray, habitat management, 16428
- Parts, machine parts, trade and tariff infor-
 mation, summaries, 7541
- Passaic, N.J., railroad accident, report, 11104
- Passenger terminals, *see* Terminals (trans-
 portation).
- Passenger traffic:
 travel between U.S. and foreign countries,
 788, 3381, 8404
- Passenger trains, *see* Railroads.
- Passenger vessels, *see* Ships.
- Passengers:
 1967 accidents of class 1 motor carriers
 of passengers, 5965
 passenger lists of vessels arriving at—
 Atlantic and Gulf ports (excluding New
 York) 1820-74, supplemental index,
 pamphlet to accompany microcopy,
 16220
- Passengers—Continued
 passenger lists of vessels arriving at—
 continued
 Boston, 1848-91, Index, pamphlet to
 accompany microcopy, 14659
 New Orleans 1820-75, quarterly ab-
 stracts, pamphlet to accompany micro-
 copy, 16218
 New Orleans, 1820-1902, pamphlet to
 accompany microcopy, 14658
 time series regression analysis of freight
 and passenger transport demand to 1980,
 16509
 travel between U.S. and foreign countries,
 788, 3381, 8404
- Passifloraceae, *see* Passion flowers.
- Passion flowers, systematic anatomy and
 ontogeny of stem in Passifloraceae, 10199
- Passmore, William, tribute to courage (ad-
 dress), 8783
- Passports:
 control acts, compilation, 352
 make additional visas available for immi-
 grants from certain foreign countries,
 hearings, 406
 summary of statistics, 3483
 United States, fees charged by foreign
 countries for visas, list, 7483
 visas, abolition of certain visa fees, agree-
 ment with Romania, 11721
 you and your passport, application re-
 quirements, care, etc., 2485
- Paste, neat portland cement pastes and con-
 cretes, shrinkage, interrelations between
 cement and concrete properties, 7319
- Pasteurization:
 egg pasteurization manual, 14975
 fishery products, shipboard irradiator
 studies, final report, 5174
 radiation—
 application to Pacific crab meat and
 flounder, significance of Clostridium
 botulinum type E, 7708, 7711
 Gulf shellfish, 190, 16625
 meat under centralized cutting condi-
 tions, cost-benefit analysis, 16624
 Pacific crab and flounder, annual report,
 5173
 radiopasteurized seafoods chemistry, re-
 port, 5175
 ultra-high-temperature processes, perform-
 ance tests for plate heat exchangers,
 6196
- Pastures, productivity of crested wheatgrass
 as influenced by nitrogen fertilization and
 alfalfa, 6401
- Patent examiners:
 in laboratory, 13604
- Patch, R. W.:
 calculated interaction energy and dipole
 moment in collisions of 2 hydrogen
 molecules, 17234
 components of hydrogen plasma including
 minor species, 4723
- Patchen, Glenn O., effects of vent holes on
 strength of fiberboard boxes and fruit
 cooling rate, 6357
- Patent examiners:
 manual of procedure, 3100
 change notice, 2387
- Patent Office:
 activities, 1965-69, summary (address),
 8769
 administration, investigation, authoriza-
 tion, report, 5414
 annual report, 4848
 classification definition series, 1276-97,
 2361-85, 4838-47, 6156-57, 7394, 8767,
 11573A-585, 13311-313, 17317
 computer programs, future (address), 1298
 decisions, yearly, 1968—
 departmental edition, 16321
 document edition, 15218
 in age of information (address), 12071
 official gazette, 3214

Patent Office—Continued
 press releases, 3317
 trademarks, index, 13315
 Patent Office Building, Old, *see* Old Patent Office Building.

Patents:
 and publications, on fermentation research, Northern Utilization Research and Development Division, Peoria, Ill., 8
 answers to questions frequently asked about patents, 1299
 appeals cases adjudged, 4220
 classification manual, 3098
 replacement pages, 2386, 8768, 10274, 13316, 14765, 16323
 code of Federal regulations, 8234
 decisions, weekly, 3214
 decisions, yearly, 1968—
 departmental edition, 16321
 document edition, 15218
 documentation, administering the international search (address), 1275
 Eastern Utilization Research and Development Division, list, 6364, 14980
 examining procedure, manual, 3100
 change notices, 2387, 6158
 government policy study, research summary reports, 4250-51
 index, 1968—
 list of patentees, 13314
 subjects of inventions, 16322
 laws and legislation (address), 13317
 laws, investigation, authorization, report, 5414
 official gazette of Patent Office, 3214
 patent abstracts section from official gazette, 3214
 patent cooperation treaty, funds for international conference, organize and hold in U.S., 1970, report, 10855
 patenting mining claim on Federal lands, basic procedure, 7191
 plant, questions and answers frequently asked, 14766
 protecting property in computer software (address), 17318
 protection of industrial property rights internationally (address), 17319
 Southern Utilization Research and Development Division, semiannual list, 19, 10466
 United States patent classification to international patent classification, concordance, 11586
 waiver petitions, finding of fact, etc., of NASA Inventions and Contributions Board, 2271, 3252, 11508
 Western Utilization Research & Development Division, semiannual lists, 14, 10463

Pathfinder operations, Army field manual, 137
 Pathfinder reactor, *see* Reactors (atomic).
 Pathogens, *see* Microorganisms.
 Pathologists, speech, employment outlook, 4554
 Pathology, of trauma attributed to restraint systems in crash injuries, 16635

Patients:
 Clinical Center, NIH referral procedures, 1157, 11536
 discharged from short-stay hospitals, statistics by size and type of ownership, 1965, United States, 2433
 discharged, utilization of short-stay hospitals under medicare, selected characteristics, 6232
 hospital care, use of electronics, 1337
 hospitalized by number of hospital episodes and days in year, 1965-66, statistics, 6211
 in mental hospitals, 1967, State and county, list, 14796
 in public institutions for mentally retarded, 1967, statistics, 17343

Patients—Continued
 informed consent for trial of new drugs, 5659
 interpersonal relations in care and management, guide for instruction of non-professional personnel assigned to Army medical facilities, 15047
 mental, halfway or more?, 10283
 nursing care of patients with cystinosis, nursing clinical conference, 13174
 outpatient psychiatric clinics—
 provisional movement data, United States, 7424
 State and total U.S. annual statistical report, 2422
 problems of nursing home patients, implications for improving patient care, excerpts from study, 11628
 provisional movement and administrative data, public institutions for mentally retarded, 6186
 radiation protection for podiatrist and patient, 2426
 short stay hospitals, length of stay under medicare, 4935
 what social security disability program means to you and your patients, answers for doctors, 1399

Patric, James H.:
 device for measuring soil frost, 17028
 potential evapotranspiration and climate in Alaska by Thornthwaite's classification, 12712

Patriotism, character guidance discussion, 7658, 9037

Patrol instrument for registration of primary cosmic radiation, USSR, 853

Patrolmen, *see* Police.

Pattee, H. E.:
 flame straightening and its effect on base metal properties, 14854
 joining ceramics and graphite to other materials, 2212

Patternmakers, 1 & C, rate training manual, 17310

Patterns, terrain effects on antenna radiation pattern, analysis of scattered fields, 11026

Patterns of industrial growth (series), 7733-34, 13729-730, 16641-642

Patterson, James L., storage requirements for Arkansas streams, 1976

Patterson, R. L., Jr., adsorption of carbon-14-labeled stearic acid on soda-lime glass, 13301

Patterson, Viola W., FAA air traffic activity, 1968, calendar year, 6926

Patterson, W. L., communities of over 1000 population with water containing in excess of 1000 ppm of total dissolved solids, 15859

Patton, David R.:
 deer and elk use of ponderosa pine forest in Arizona before and after timber harvest, 14282
 transmitters for tracking wildlife, 1922

Patty, Gordon E., U.S. honey in west European market, 12670

Paulet, E. G., strength and serviceability criteria, reinforced concrete bridge members, ultimate design, 16390

Paulk, Herschel L., soil survey, Bulloch County, Ga., 8865

Paul, Robert M., radioprotection with 2 (1 dectylamino) ethanethiosulfuric acid in rhesus monkey, 3709

Paulling, John R., summer 1968, new crop varieties, 1864

Paulsen, Walter H., use of AN/EPS-77 for quantitative weather radar measurements, 1535

Paulson, Danton L.:
 electrical resistivity of—
 hyperstoichiometric columbium and zirconium carbide materials, at elevated temperatures, 14553

INDEX 1969

- Paulson, Danton L.—Continued
electrical resistivity of—continued
hyperstolchometric zirconium carbide
materials, 6475
- Pautze, Clarence F., nomination, hearings,
1737
- Pavements:
airfields—
and heliport reports, Army and Air
Force emergency construction, 3780
Army evaluation, Army airfield-heliport
pavement reports, technical manual,
16600
evaluation of airfield pavements other
than Army, flexible airfield pavement
evaluation, Army technical manual,
178
experimental snow runway pavement in
Antarctica, 3749
flexible pavements, Air Force, 6442
drainage of highway pavements, 8826
grooving and traction studies, 7247
Navy design manual, changes, 4818
rigid, and overlay design, Army airfield
and heliport, technical manuals, 177,
13662
rigid for roads, streets, walks, and other
storage areas, Army technical manual,
10551
- Paving, *see* Pavements.
- Pawtucket, R. I., area wage survey, 16013
- Paxton Trucking Company, motor carrier
accident, 8586
- Pay, *see* Pay, allowances, etc.—Salaries—
Wages.
- Pay, allowances, etc.:
incentive pay in manufacturing industries,
report, 12977
junior nuclear qualified submarine officers,
special pay, provide, hearing, 5417
licensed vendor listing, Post Office Dept.
uniform allowance program, 11592
modernizing military pay, quadrennial re-
view of military compensation,
report—
active duty compensation, 555, 10958
military estate program, 12374-375
per diem payments to prospective crew
members of ships under construction
in New Orleans, La., Navy Dept., GAO
report, 7031
plant movement, transfer and relocation
allowances, major collective bargaining
agreements, 14451
sick pay, adjustments to income, 12828
special pay for nuclear qualified submarine
officers, amend U.S. Code—
hearings, 7948
law, 10682
reports, 7887, 9413
State Department living quarters allow-
ances, 14480
uniformed services—
compilation, 3986
medical and dental officers, active duty
extension, continuation pay, report,
1728
veterans, educational assistance allow-
ances, increase rates—
hearings, 10807
reports, 12170, 16869
see also Travel.
- Pay roll savings, *see* Savings bonds.
- Pay rolls:
Architect of Capitol, activities, GAO re-
view, 721, 4011
automated central payroll system of
Health, Education, and Welfare Dept.,
improvements needed, GAO report, 4342
employee compensation and payroll hours,
cotton and synthetic textiles, 12963
Federal agencies, principles and proce-
dures, GAO guidance manual, 14302
internal audit of civilian payroll opera-
tions in Defense Department, opportuni-
ties for improving, GAO report, 11219
- Payloads, scientific rocket payloads, Hall-
effect magnetometers, 6919
- Payments:
alimony, income tax deduction, 4410
Federal aid payments to State and local
governments reporting, 10438
Job Corps members, selected aspects of
payments and charges, GAO report,
11226
payments and controls, foreign economic
policy-trade (address), 1653
public assistance money payments to per-
sons aged 65 or over, concurrent
receipt, 7331, 17267
unauthorized, cessation of proficiency pay
and variable reenlistment bonuses to
candidates in officer training programs,
Defense Department, GAO report, 14306
workmen's compensation payments and
costs, 2458
- Payne, Joseph E., Jr., foreign trade regula-
tions of Bolivia, 10655
- Payroll savings, *see* Savings bonds.
- Payrolls, *see* Pay rolls.
- PCAM (punched card accounting machine),
see Electronic data processing systems.
- PCMR message, 3242
- Pea Ridge National Military Park, general
information, 1227
- Peace:
America's role in the world (address),
1706
food for peace, annual report on Public
law 480, 12136
in Vietnam (address), 10410
NATO, 20 years of cooperation for peace
(remarks), 8883
pursuit with justice (remarks), 8919
toward an open world (address), 16468
United Nations peacekeeping forces, re-
port, 1698
water for peace, international conference,
proceedings, papers, etc., 2015
- Peace Corps:
act, amend—
hearings, 10899, 12219
reports, 15250, 15260, 15393, 16790
act, amendments of 1969, hearings, 10899
annual report, 4849
appropriations, 1970, hearings, 15299
Asia, diary of trip, 9458
biographic register, 13470
Director, nomination of Joseph H. Blatch-
ford, hearing, 8065
excess foreign currencies to pay transporta-
tion expenses of returning volunteers,
GAO report, 8333
factbook, 11588
field staff, Foreign Service list, 2907
Peace Corps volunteer (periodical), 3243
Philippine citizen employees, social secu-
rity coverage, agreement, 10419
press releases, 3318
quarterly statistical summary, 3361
returning volunteers, opportunities in
Federal civil service, 13791
volunteers, agreement with Trinidad and
Tobago, 16477
- Peach trees, *see* Peaches.
- Peaches:
canned—
clingstone, U.S. standards for grades,
9506
freestone, U.S. standards for grades,
9507
growing east of Rocky Mountains, 3637
special peach forecast, supplemental,
California clingstone production fore-
cast, 11735
- Peak, George W., water supply outlook and
Federal-State-private cooperative snow
surveys for Wyoming, 3592
- Peanuts:
acreage allotments, transfer, report, 16773
market news, weekly report, 3244
stocks and processing, 3245

- Pearl River and Valley, pollution of interstate waters, conference proceedings, 11147
- Pearlman, Chester A., effect of rapid eye movement (dreaming) sleep deprivation on retention of avoidance learning in rats, 8580
- Pears:
- blight, 6969
 - marketing orders for canning or freezing—
 - hearing, 7942
 - report, 10728
- Pearse, Benjamin H., Business, Industry & Education, Inc., corporations and educators form partnership in learning, 5534
- Pearson, Gregory L., water supply outlook and Federal-State-private cooperative snow surveys for Utah, 3589
- Pearson, Helmer S., nomination, hearings, 9452
- Pearson, Henry A., thinning, clearcutting, and reseeded affect deer and elk use of ponderosa pine forests in Arizona, 5671
- Pearson, Karl G., real estate business, 4925
- Pearsons, Karl S., combination effects on tone and duration parameters on perceived noisiness, 5981
- Peat, minerals yearbook chapter, 14547
- Pecan Bayou:
- watershed development, engineers report—
 - departmental edition, 602
 - document edition, 359
- Peckham, Brian W., some aspects of air pollution, odors, visibility, and art, 16371
- Pecos National Monument, geologic setting, 9887
- Peddie, Norman, magnetic results, South Pole-Queen Maud Land, Traverse 1, 6526
- Pedestrianism, *see* Walking.
- Pegasus, *see* Satellites.
- Pegg, Robert J.:
- flight investigation of lightweight helicopter to study feasibility of fixed-collective-pitch autorotations, 11476
 - helicopter height-velocity diagram showing effects of density altitude and gross weight, investigation, 1050
- Peifer, William H., operation new home, brief history of establishment of permanent location for Air Force Office of Aerospace Research, 11898
- Peking, China, Peking's approach to negotiation, selected writings, 6786
- Pelican Island National Wildlife Refuge, designate certain lands as wilderness, hearing, 479
- Pelican Island Wilderness Area, designate, report, 9427
- Pellets, stannous fluoride, stable preparation in oral prophylaxis pellet, 16570
- Pellini, W. S., integration of metallurgical and fracture mechanics concepts of transition temperature factors relating to fracture-safe design for structural steels, 13300
- Pen barns, *see* Barns.
- Penaeld shrimps, *see* Shrimps.
- Pence, Rodric S., relief, 9282
- Pend Oreille River and Valley, Albeni Falls Dam, northern Idaho, general information, 14147
- Pender, William D., relief, 9397, 13877
- Pender County, N.C., Agricultural Stabilization and Conservation Service, annual report, 13575
- Pending Insurance bills, hearing, 15336
- Penitentiaries, national, study authorization, report, 4063
- Penn Central Co., accidents, reports, 11107-108
- Pennell, Maryland Y., health manpower, United States, 1355
- Pennsylvania:
- Agricultural Stabilization and Conservation Service—
 - activity summary, congressional district summary, 13576
 - annual report, 11842 - anthracite refuse, survey of solid waste from mining and preparation, 10049
 - census of business, 1967, retail trade, area statistics, 13749
 - climatological data, 2662
 - eastern, systematic jointing in western part of anthracite region, 4351
 - electric rate book, 9788
 - employment statistics, 1958-66, compilation, 12979
 - Federal outlays, report of Federal Government's impact by State and county, 9570, 9619
 - mineral industry, minerals yearbook chapter, 4626
 - precipitation data, hourly, 2962
 - shortleaf pine recommended for local seed sources, 17049
 - uranium reconnaissance, preliminary, 13711
 - water pollution, Lake Erie and its tributaries, etc., conference, proceedings, 5656, 9836
 - Pennsylvania anthracite, *see* Coal.
 - Pennsylvania Avenue, President's Temporary Commission on, *see* President's Temporary Commission on Pennsylvania Avenue.
 - Pennsylvania coal, *see* Coal.
 - Pennsylvania-New Jersey-Maryland interconnection, power interruption, report, 649
 - Pennsylvania-Reading Seashore Lines, accident, report, 11100
 - Pennsylvania RR., accidents, reports, 11082, 11088, 11099, 11105
 - Pennsylvanian period:
 - early Pennsylvanian ammonoids from southern Nevada, 7055
 - formations of southwest Virginia, 17070 - Penny Pines Cooperative Reforestation Program, progress report, 15755
 - Penobscot Bay, marine biofouling, 1960-68, 16293
 - Penobscot Experimental Forest, trees and shrubs, Penobscot County, Maine, 17043
 - Pens, movable pen for truck platform scale, farm building plan, 3653
 - Pense, R. A.:
 - mineral industry of—
 - North Korea, 13017
 - South Korea, 16087
 - Taiwan, 14543
- Pensinger, Ethel J., relief, 16837
- Pension Benefit Insurance Corporation, create, hearing, 498
- Pension Benefit Insurance Fund, create, hearing, 498
- Pensions:
- and bounty-land warrant application files in National Archives, 6030
 - benefit security act, hearing, 498
 - code of Federal regulations, 9816
 - District of Columbia police and firemen—
 - equalize retirement benefits for totally disabled, report, 12174
 - retired members, eligibility of widows to survivor benefits, provide, report, 12173 - employee, annuity, etc., income tax, 809
 - Lighthouse Service, increase, hearings, 1706
 - negotiated retirement plans, decade of benefit improvement, 11353
 - pension and employee benefit act of 1967, hearing, 498
 - pension and welfare plans, hearing, 498
 - plans of self-employed individuals, definition of earned income, report, 449
 - public employment retirement systems, benefits and beneficiaries, 10369

Pensions—Continued
publications, price list, 4866
retirement plans for self-employed individuals, 4417
selected plans under collective bargaining, spring 1968, digest, 7172
veterans—
deaths from service-connected causes, increase dependency and indemnity compensation for survivors—
hearings, 15335
report, 15379
disabilities, compensation benefits, 6339
disability ratings in effect 20 or more years, protection—
law, 12117
reports, 5353, 9437
service connected compensation payments, increases, enacted by Congress, 5438
service connected death, increase dependency and indemnity compensation for widows and children, report, 16771
welfare and pension plan protection act of 1968, report, 371
welfare and pension plans disclosure act—
administration, 1968, report of Secretary of Labor, 4460
amend—
hearing, 498
report, 371
see also Civil service pensions—Employee benefit plans—Retirement.
Pentagon, general information, 3786
Penwick, W. B., crushed limestone, data report, 12558
Peonies, growing, planting, etc., 5042
People of rural America, 3862
People who serve education, 4180
Peoples, John A., transport study of neutron and photon attenuation through lithium hydride and tungsten spherical media, 4719
Peoriinae, see Moths.
Pep pills, see Amphetamines.
Pepelko, William E., adaptation of dogs to 60 and 90 mm. HG CO₂ at total pressure of 260 mm. HG, 3695
Pepper, L., precision of quartz crystal and mercury differential thermometers in heat-of-hydration test, 15665
Pepper, Stephen V., absorption of infrared radiation by ice cryodeposits, 8641
Peptides, solvent-cast thin films of polypeptides, wettability and Mair infrared spectroscopy, 2354
Perception:
assessment of Broca-Sulzer phenomenon via inter- and intra-modality matching procedures, studies of signal light brightness, 10582
autonomic response to auditory stimulation during sleep, 15019
combination effects of tone and duration parameters on perceived noisiness, 5981
duction, relation to dynamic stereoacuity, 16066
light flashes, pupil size, and visual performance, analysis of discomfort in use of electro-optical aids, 8577
peripheral vision cues—
during instrument flying tasks, pilot response, 6481
effect on pilot performance, 5194
relationship between optical distortion and binocular depth perception, 10113
responses to underwater distortions of visual stimuli, 927
sound perception in the honeybee, experimental proof, USSR study, 12916
space and time in outer space, 10162
stereoscopic and resolution acuity with varying field of view, 7201

Perception—Continued
visual problems encountered during naval operations at night, analyses, 8574
visual sensing of spacecraft guidance information, 2194
see also Color perception—Thresholds (perception).
Perennials:
key to native perennial grasses, Midwest region east of Great Plains, 1407
radiosensitivity of certain perennial shrub species based on study of nuclear excavation experiment, Palanquin, with other observations of effects on vegetation, 9064
Perez-Abreu, Carlos M., relief, 4013
Perez de Lanlo, Olga C., see Lanlo, Olga C. P.
Performance (psychology):
code transformation task (COTRAN), effects of practice and work load on performance of, 2209
effects of acceleration on, with special reference to transverse G, 81
heart rate and task performance, effects of cognitive appraisal of stress, 9088
human performance in space environments, predicting, 13041
human visual sampling processes, simulation validation study, 2208
Navy hospital corpsmen, predicting academic performance, 16060
patrolman, qualifications in relation to field performance, etc., psychological assessment, 8530
prediction of officer performance and retention from selected characteristics of college attended, 10510
Performanc and stability characteristics of nitrogen tetroxide-hydrazine combustors, 1055
Performance ratings, see Efficiency ratings.
Performance, story of the handicapped (periodical), 3247
Performance tests (engineering, mechanical, etc.):
improved wheel performance on sand by controlled circumferential rigidity, 11018
plate heat exchangers used for ultra-high-temperature pasteurization processes, 6196
Performance tests (human):
adjusted OER scores with inflation effects removed, 10506
estimates of OER distributions by Air Force officers, 11890
interpretation and utilization of scores on Air Force officer qualifying test, 11891
officer performance, factorially derived information, measures for differential prediction, 13665
Performing artists, see Entertainers.
Perfumes, synthetic perfume materials, production and sales, 4989
Perinatal mortality, see Death.
Periodic systems:
enlargement of periodic table proposed, USSR study, 11321
Mendeleev's periodic law and electronic structure of atoms, USSR study, 15960
prospects for further considerable extension of periodic table (remarks), 10575
Periodicals:
Army Library, selected literature, list, 3427
catalog of copyright entries, 515-516, 5471, 9508
Commerce Dept, periodicals to aid businessmen, 15179
Government, price lists, 4865, 8787, 13332, 17328
Housing and Urban Development Library, subject index, 4390
magazine reprint MIR series, 3094
military, Air University Library index, 2577

Periodicals—Continued

- water research journals, 1967 permuted title index, 2004
- Periodontal disease:
adults, selected examination findings, 16377
preventive treatment procedures, results after 2 years, 3706
- Peripheral vision displays, 2201
- Perishables, *see* Agricultural products.
- Perkins, Randall F., thinning program for Malheur National Forest, 14296
- Perkinson, Leon B.:
economic survey of northern Lake States region, statistical supplement, 6855
State and local governmental finances in North Central States, 1964-65, 16947
- Perkloven Creek, flood plain information, Green Lane Reservoir to Schuylkill River, extent and frequency of inundation, 15798
- Perlite, minerals yearbook chapter, 16092
- Permafrost:
Alaska, permafrost and related engineering problems, 12786
rotary drilling and coring in permafrost. Investigation at Fort Churchill, Manitoba, 3747
- Permanent Subcommittee on Investigations, *see* Government Operations Committee, Senate.
- Permeability:
controlled, to steam, scale control with graphite heat-transfer tubes, phase 2, 4402
nonsteady one dimensional compressible fluid flow through anisotropic porous media, 3745
- Permeators, reverse osmosis, design study, 9965
- Permian period, brachiopods from west Texas, 14859
- Permits, *see* classes of persons to whom, or subjects for which permits are issued.
- Pernambuco, Brazil, hydrogeology of upper Capibaribe Basin, etc., 11251
- Perry County, Ark., community profile, 15589
- Perry County, Ind., soil survey report, 14878
- Perry County, Tenn., forest inventory statistics, 6323
- Perry Preschool Project, Ypsilanti, Mich., 6893
- Persia, records of State Department, political relations with U.S. and other States, pamphlet to accompany microcopy, 14661
- Persian Gulf:
lights and fog signals, list, 1245, 7373, 16302
sailing directions, change, 2332
- Person, Philip H., statistical information system for community mental health centers, 10320
- Personal affairs, your personal affairs handbook, Army pamphlet, 16594
- Personal baggage, *see* Baggage.
- Personal factors in dental disease prevention, test to measure dental health knowledge, 16067
- Personal property:
claims of military personnel and civilian employees, settlement, discontinue annual report to Congress, report, 7936
credit sales by dealers in personal property, tax information, 8426
- Defense Department—
status report, 14115
utilization and marketing handbook, supplement, 5486, 16912
- Federal surplus, for health, educational and civil defense purposes, how to acquire, 7065
- Government owned, in U.S. territories, etc., inventory report, 7957
- nonexpendable, management and acquisition overseas, improvements made or to be made by State Department, GAO report, 5688

Personal property—Continued

- surplus, how to buy from Defense Dept., 10950
- uniformed services, traffic management, regulation, 5108, 15035
- Personality, human, and modern technology, USSR articles, 5865
- Personality tests, stability of Edwards personal preference schedule need scale scores and profiles over 7-week interval, 14495
- Personalize for success, 16590
- Personnel, *see* Social workers.
- Personnel handbook series, 2395, 11593
- Personnel management, *see* Administrative management.
- Personnel manual, *see* Civil Service.
- Personnel qualifications for medicare personnel, 14380
- Personnel research, *see* Ability.
- Personnel Research Laboratory, technical reports, 79, 3690, 9005
- Personnel services in education, State Department of Education personnel directory, 9650
- Personnel workers:
employment outlook, 4532
personnelman 3 & 2, Navy training course, 1252
why not be a personnel specialist? 2545
- Persons hospitalized by number of hospital episodes and days in year, 6211
- Perspective, human deprivation, biological, psychological, and sociological influences, 14693
- Perspectives in defense management (periodical), 3249
- Persse, Franklin H., mineral industry of South Dakota, 5946
- PERT, *see* Program evaluation and review technique.
- Perturbations:
pressure, induced in rocket combustor by machinegun, characterization, 8652
singular perturbation solution for blunt-body stagnation-region flow with non-gray radiation heat transfer, 1148
thermal neutron flux effects in cylinders, predictive equations, 2249
- Peru:
agricultural situation, look ahead, 12415
background notes, 6270
capsule facts for Armed Forces, 10534
economic trends and their implications for United States, 817
fishmeal industry, 6996
foreign trade regulations, 1661
internal affairs, records of Department of State, pamphlet to accompany microcopy, 13155
labor law and practice, 4470
United States relations with hearings, 9463
- Passall, N., development of low-cost iron-base alloy to resist corrosion in hot sea water, 4401
- Pesticides:
Agriculture Dept. activities, 1968, progress report, 13606
attractants for Japanese beetle, 5067
catalog of Federal pesticide monitoring activities in effect, July 1967, 1858
chemistry of, USSR study, 2051
chlorinated, in oysters and estuarine environment of Mobile Bay area, study, 11637
documentation bulletin, index to literature on pest control (periodical), 3250
drug and toxic hazards in general aviation, 7724
farm, extent of use on crops, 1799
effects on sports and commercial fisheries, hearings, 15425
farmers' expenditures for—
crops, livestock, and other selected uses, 566
custom pesticide service, 567

Pesticides—Continued

- federally financed research study, 1859
- health aspects, abstract bulletin, 2956
- lindane pesticide pellets, questions of safety involving uses, GAO review, 5690
- metabolism, review, 16153
- monitoring journal (periodical), 3251
- organochlorine, in environment, 7473
- pesticide application equipment owned by farmers in 48 States, 10965
- pesticide safety in your home, 3664
- pesticides and related products, production and sales, 1469
- registered agricultural chemicals, summary of uses—
 - fungicides and nematocides, 13556
 - herbicides, defoliants, desiccants, plant regulators, 20, 7579
 - insecticides, repellants, acaricides, 14981
- residues in foods—
 - analytical manual, 666, 1901, 6995, 12667, 17009
 - control, industry guidelines, 4289
 - review, 1501
 - toxicity to crustacean *Gammarus lacustris*, 10400
- see also Insecticides.
- Pestina says, help stop spread of plant pests, 13601
- Pests:
 - agricultural, sterilized by gamma-radiation, USSR study, 2057
 - control technology, basic, 14723
 - federally financed research study, 1859
 - forest pest conditions in Pacific Northwest, 8278
 - forest pest leaflets, 1907, 11161–164, 14263
 - household, controlling, 3640
 - intercepted plant pests, list, 11794
 - major insect pests in North Dakota shelterbelts abundance and distribution by climate and host age, 14289
 - moving equipment, make sure it's clean first! plant pests often hitchhike in dirt, 15003
 - pest control, federally financed research study, 1859
 - plant—
 - help stop spread of, 13601
 - living, regulating shipment, 52
 - quarantines prevent spread of plant pests, 8979
 - young Americans, you can help fight plant pests, 10495
- Peters, Althea H., characteristics and trends of clients rehabilitated, 1964–68 statistics, Federal State program of vocational rehabilitation, 13405
- Peters, C. C., effect of precompression on sliced wood, $\frac{1}{2}$ and 1 inch thick, 1910
- Peters, Elroy J., response of ironweed and buckbrush to herbicides and to herbicides in combinations with mowing, nitrogen fertilizer, and surfactants, 5068
- Peters, Ignatius G.:
 - beta-aminoisobutyric acid excretion in *Macaca mulatta* primates, 10528
 - selection of radiation-resistant animals, 10526
- Peters, Richard A., dynamics of vestibular system and their relation to motion perception, spatial disorientation, and illusions, 7239
- Peters Creek, flood plain information, 12471
- Petersburg National Battlefield, general information, 8734
- Petersen, John E., monetary restraint, borrowing, and capital spending by small local governments and State colleges, 4277
- Peterson, Esther, address, Nov. 8, 1968, 876
- Peterson, Fred, four new members of upper cretaceous Straight Cliffs Formation in Southeastern Kaiparowits Region, Kane County, Utah, 5705

Peterson, Gloria:

- administrative history—
 - Abraham Lincoln Birthplace National Historic Site, Hodgenville, Ky., 8714
 - Fort Donelson National Military Park, Dover, Tenn., 8713
- Peterson, James T., climate of cities, survey of recent literature, 17346
- Peterson, R. L., mathematical techniques for EPR analysis of S-5/2 ions in C_2 symmetry, application to Fe^{3+} in quartz, 11523
- Peterson, Val, nomination, hearing, 8065
- Petitions for patent waiver, findings of fact and recommendations of NASA Inventions and Contributions Board, 2271, 3252, 11508
- Petkof, Benjamin:
 - calcium and calcium compounds, 13009
 - diatomite, 14526
 - gem stones, 16076
 - mica, 16080
 - minor nonmetals, 14544
 - salt, 14560
 - sodium and sodium compounds, 13029
- Petrasek, Donald W., stress-rupture and tensile properties of refractory-metal wires at 2000° and 2200°F., 7297
- Petroff, C. P., basic development and applications of bubble chambers for low level counting, 13697
- Petrography, see Rocks.
- Petroleum:
 - Alaska-Northwest Canada, economic activities, comparison of mining laws and oil and gas laws and practices with recommendations for policy, 14194
 - Alaska's economy in case of national economic pause, fiscal strength through oil and gas receipts, 12611
 - Alaska's North Slope oil sale (remarks), 15851
 - bulk petroleum products system identification methods, military standard, 5497
 - bulk storage facilities, 10946
 - control of discharges in navigable waters—
 - hearings, 6803, 8090, 9490, 12319
 - report, 12281
 - crude oil, market demand forecast, monthly, 3253
 - crude, and products, and natural-gas liquids, monthly statement, 3254
 - crude, products, minerals yearbook chapter, 936
 - crude, products, production and sales, 6318
 - development, impact in Gulf of Mexico, 10048
 - discharged from vessels control, hearings, 6728
 - heavy oil reservoirs in Arkansas, 17174
 - hydrocarbons, chemism and physicochemical properties of processes of microbiological oxidation, USSR study, 12876
 - industry, governmental intervention in market mechanism, economists' views, hearings, 15468
 - international petroleum annual, 7209
 - interstate compact to conserve oil and gas, consent of Congress to extend, report, 9429
 - laboratory oil-recovery tests with ultrasonically formed emulsions, 14559
 - Laramie Petroleum Research Center, Wyo., general information, 14533
 - national security and oil imports (remarks), 2002
 - natural resources development (remarks), 11278
 - oil and gas deposits, prospects of using nuclear explosions in developing, 12915
 - oil and gas industry, economic factors affecting level of domestic petroleum reserves, tax reform studies and proposals, Treasury Department, 12244
 - oil field machinery and equipment including services, shipments and materials consumption report, 9096

- Petroleum—Continued**
 oil leases, termination and reinstatement report, 9434
 oil reserves adequate for U.S. needs (address), 793
 oil resources development activities on public lands in Alaska, Interior Department's manpower, funding requirements, and capability to oversee, hearing, 4046
 oil spillage—
 California, hearings, 7970
 Santa Barbara, Calif., hearings, 6729, 12305
 petroleum and natural gas submodel of PAKM (post attack resource management) prototype model, technical report, 5560
 petroleum plants, investment and operating costs, bibliography, 13011
 production and processing occupations, employment outlook, 4584
 products survey (series), 4634-35, 5953, 13021, 16095
 publications, price list, 2408
 refining, industry trend, 7729
 rotary coring of Appalachian area oil-producing formations with mud or air, 7212
 separation and characterization of metallo-organic materials, 11388
 statistics, progress report, 6154
 supply and demand—
 for energy in United States by States and Regions, 1960 and 1965, data, 10051
 in free world, 10273
 supply in theaters of operations, Army field manual, 136
 theoretical relationship between density and oil yield for oil shales, 7218
see also Pipe lines.
 Petroleum gases, *see* Gas.
 Petroleum products, *see* Petroleum.
 Petroleum refineries, United States and Puerto Rico, mineral industry survey, 2169, 14548
 Petrology, *see* Igneous rocks—Rocks.
 Petrov, Julia A., completed research, studies, and instructional materials for language development, 10975
 Pets, importation by travelers, regulations, 524
 Petsche, Jerome E.:
 Arikara archeology, Bad River phase, 1381
 bibliography of salvage archeology in United States, 2449
 La Roche, sites, 2450
 Pettinger, Leon F.:
 forest pest conditions in Pacific Northwest during 1968, 8278
 important forest insect outbreaks in Oregon and Washington, 17014
 Petty, Clayton, theories of mechanism of action of inhalation anesthetics, 13627
 Petty, Clifford L., relief, 7875, 13842, 13985
 PF series, 3257
 Pfeiffer, C. G., sequential processing techniques for trajectory estimation, 17196
 pH, *see* Hydrogen-ion concentration.
 Pharmaceutical industry, *see* Drugs.
 Pharmaceuticals, *see* Drugs.
 Pharmacists:
 employment outlook, 4533
 Rx legend, FDA manual, 8268
 Pharmacodynamics of radioprotective drug, 2-(1-decylamino) ethanethiosulfuric acid, 15020
 Pharmacology:
 of propellant hydrazines, 10524
 pharmacological drugs which increase resistance to hypoxia, USSR study, 8510
 research associate training program, National Institutes of Health, 4781
- Pharmacy:**
 manpower, United States, 13381
 standardization of pharmacy items and consolidation of bulk compounding facilities, opportunities for better service and economies, GAO report, 11213
 Phase diagram, for KF-YF₃ system, 7216
 Phase shift, enhancement by mode-suppression techniques, 6135
 Phase studies, physics and chemistry of nucleation, Project Skywater conference proceedings, 13401
 Phased project planning guidelines, 1154
 Pheasants, ring-necked, habitat management, 16432
 Phelps, William R., characteristics of blister rust cankers on eastern white pine, 17025
 Phenolic nylon, *see* Nylon.
 Phenomenological and microscopic analysis of properties of even-even nuclei, 5160
 Phenomenological theory of loudness, 16173
 Phenotypes, *see* Genetics.
 Philadelphia, Pa.:
 accounts and deposits in all commercial banks in district, summary, 9769
 area wage survey, 10027
 city expands, conversion of land from rural to urban use, 1945-62, study, 1997
 continuous air monitoring projects, 17348
 National Air Surveillance Networks, data tabulations and summaries, 14797, 16358
 ports, a look to the future (remarks), 16050
 Philately and philatelists, *see* Migratory-bird-hunting stamps—Postage stamps.
 Philipp, Warren H., radiation-induced reduction of ammoniacal nickel (II) sulfate to metallic nickel, 10132
 Philippines:
 Anzus pact, review of U.S. military commitments abroad, report of subcommittee, 1697
 area handbook, 6437
 atomic energy cooperation for civil uses, application of safeguards by IAEA, agreement, 7492
 background notes, 4957
 capsule facts for Armed Forces, 9025
 checks issued to Philippine citizens, U.S. Treasury Dept., regulations, 11761
 citizens employed by USAID, JUSMAG, and Peace Corps, social security coverage, agreement, 10419
 climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
 graphs, 1842
 maps, 4221
 customs, free entry privileges to dependents of personnel assigned to South Viet-Nam, agreement, 7496
 economic trends and their implications for United States, 2041, 7110, 15882
 education, financing of exchange programs, agreement, 8896
 meteorological research, cloud-seeding project, 11720
 mineral industry, minerals yearbook chapter, 13018
 offshore labor, agreement, 6291
 pocket guide, 10537
 sailing directions, 2333, 4823
 special fund for education, agreement, 1448
 stream gaging, appraisal of surface water, investigations, 11654
 Phillips, Bert, on design of acoustic liners for rocket engines, Helmholtz resonators evaluated with rocket combustor, 7304
 Phillips, Edward P., effect of outdoor exposure at elevated temperature on fatigue life of Ti-8Al-1Mo-IV titanium alloy and AM 350 stainless steel sheet, 13133
 Phillips, H. B., Beggs deformeter stress analysis of single barrel conduits, 1364

- Phillips, Kenneth N., hydrology of Crater, East and Davis Lakes, Oregon, 1975
- Phillips, Ralph W., FAO, its organization and work and U.S. participation, 8271
- Phillips, V. Estelle, Air University Library index to military periodicals, 2577
- Phillips County, Ark., community profile, 15590
- Philosophy:
- philosophical basis for subject matter for bionics, USSR study, 15973
 - philosophical knowledge, systematic-structural approach and specific nature of, USSR study, 2092
 - philosophical problems of forecasting and organizing USSR science, 2093
- Phoenix, Ariz.:
- Air Quality Control Region, report for consultation, 17357
 - area wage survey, 12966
 - community action program, effectiveness and administration, GAO report, 12738
 - equal employment opportunity program, economic data, 11649
 - migrant and seasonal farmworkers program, effectiveness and administration, GAO report, 14309
 - Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 14313
- Photographs:
- and record player attachments, current industrial reports, 12002
 - Federal item identification guides for supply cataloging, supplements, 2849
- Phonorecords:
- Library of Congress—catalog, 907, 16038
 - list, 16034
- Phoridae, *see* Flies.
- Phosphate rock, *see* Rock phosphates.
- Phosphates:
- coatings and inhibitors, preventive compounds, military standard, 12368
 - fertilizer supply, 6365
 - finest from southeastern Idaho, evaluation, 2172
 - nodules at base of Niobrara formation, east flank of Black Hills, S. Dak., stratigraphic significance and petrology, 4365
 - operation, Florida, waste disposal costs, 7207
 - superphosphates, current industrial reports, 2732
- Phosphates, *see also* Rock phosphates—Silver phosphates.
- Phosphoric acid, atmospheric emissions from thermal-process phosphoric acid manufacturers, 1342
- Photo guide to patterns of discoloration and decay in living northern hardwood trees, 17042
- Photo log, 1970 census, 13758
- Photo reconnaissance, *see* Reconnaissance (aerial).
- Photochemistry:
- and concentration measurements, line emission sources, 7325
 - photophysical processes in polymer photodegradation, etc., 10258
 - tobacco, sensitive monitor for photochemical air pollution, 13354
- Photocopying, equipment, industrial plant equipment handbook, 4124
- Photodegradation, *see* Photochemistry.
- Photodiodes, *see* Diodes.
- Photoelectric emission, satellite ion-electron collector, experimental effects of grid transparency, photoemission, and secondary emission, 6913
- Photoelectricity, photoelectric catalogue, magnitudes and colors of stars in U.B.V. and U.C.B.V systems, 8743
- Photogrammetry:
- aerial surveys and mapping by photogrammetric methods, reference guide outline specifications for highways, 9774
 - Alaska research studies and interpretive results, 6528
 - ESSA photogrammetric program, hearings, 1706
 - underwater, applications, 13240
- Photographers:
- and photographers (laboratory), examination announcement, 15139
 - employment outlook, 4534
 - photographer's mate 1 & C, rate training manual, 16312
- Photographic apparatus and supplies:
- Federal item identification guides for supply cataloging, supplements, 2847
 - German industry and market, 15085
 - photographic equipment—
 - industrial plant equipment handbook, 4124
 - Kennedy round, special report, 8485
 - trade and tariff information, summaries, 1465
 - United Kingdom industry and market, 15087
- Photographic laboratories, occupations, employment outlook, 4534
- Photographic supply stores, *see* Photography—Stores.
- Photographs:
- catalog of copyright entries 4114–15, 14068, 16904
 - Division of Agriculture and Forest Products, annotated list, 13414
 - earth, pictures from Gemini missions, 11427
 - Lunar Orbiter mission 1, for analytical study of lunar surface shape and size, 11465
 - non-stereo aerial photos, stratifying stand volume, reduces errors in forest survey estimates, 17053
- Photography:
- classification definitions, 4838
 - for evaluation of forest canopies, 1576
 - meteoroid environments determined from photographic meteor data, 16205
 - photo scale and orientation, effect of disparity on change detection, 13666
 - photographic dealers and studies, bibliography, 2448
 - photographic investigation of sediment texture, bottom current activity, and benthonic organisms in Wilmington submarine canyon, 9198
 - programmed instruction, Navy trainee course, 8758
 - red-bed facies, Minas Basin, Nova Scotia, multispectral photographic studies, 1531
 - three different techniques of color separation applied to charting and printing, 13243
 - time-lapse—
 - cinéphotography used for determining mitotic synchronization of L-strain fibroblasts with 5-aminouracil, 4744
 - seasonal change revealed, 7655
 - see also* Aerial photography—Infrared photography.
- Photography, High Speed, International Congress on, *see* International Congress on High Speed Photography.
- Photolization *see* Ionization.
- Photometers, two-channel photometer for use in small sounding rockets, 5578
- Photometry, *see* Spectrophotometry.
- Photons:
- cross sections, attenuation coefficients, and energy absorption coefficients from 10 keV to 100 GeV, 14667
 - low-energy, photon spectrometers, lithium-drifted silicon detectors, 7258
 - multiphoton ionization of sodium atom, 15073

Photons—Continued

neutron and photon attenuation through lithium hydride and tungsten spherical media, transport study, 4719
search for gamma-rays from Crab nebula using digitized spark chamber, 8656

Photoperiodism, effect on growth of 4 sedges at low light intensities, 9854

Photosynthesis:

differential effects of light on, and nitrogen metabolism in *Chlorella pyrenoidosa*, 16574

expressing photosynthesis on leaf-volume basis, volumeter for estimating quantity of conifer foliage, 9853

mechanisms, USSR research, 7129
tree seedlings, assimilation chamber for outdoor measurements, 14285

Photosynthetic gas exchanger, *see* Gas exchangers.

Phototubes, multiplier, exposed to spatial radiations, degradation, 7238

Photoviscoelastic model testing, 5983

PHS, *see* Public Health Service.

Physical chemistry:

electrical resistivity of hyperstoichiometric zirconium carbide materials to 2,000° C, 6475

USSR Institute of Physical Chemistry
Ivan L. Ya Karpov awarded Order of Red Banner for research, 5823

Physical constants, recommended by NAS-NAC, adopted by NBS, 11516

Physical education and training:

physical training platoon, Officer Candidate School, Quantico, Va., evaluation, 14506

plots, physical training significance, 6415

Physical endurance, *see* Physical fitness.

Physical examinations:

Air Force Academy applicants, desired standards of quality, 9003
health examination survey, factors related to response, 13379

Physical fitness:

clinics, 14774

effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058

test, reevaluation, 14514

test standards for women marines, 14505
see also Exercise.

Physical geography:

Africa, northeast, preliminary study of detection of geomorphological features by satellite radiation measurements in visible and infrared, 2219

reconnaissance geomorphology of Rangiroa Atoll, Tuamotu Archipelago, 8851

Physical measurements:

precision measurement and calibration—electricity, low frequency, 4763

statistical concepts and procedures, 6046

temperature, 6047

Physical sciences, *see* Science.

Physical therapists:

Air Force career opportunities, 7619

employment outlook, 4527

Physically handicapped, *see* Handicapped.

Physician Manpower Division, its mission and organization, 1190

Physicians:

and Project Head Start, 6846, 12403

answers for doctors—

social security disability program, 17384

what it means to you and your patients, 1399

disability evaluation under social security, handbook, 7464, 10378

drug prescribers, Task Force on Prescription Drugs, background papers, 1982

emergency handling of radiation accident cases, 11969

employment outlook, 4538

Physicians—Continued

expenditures for services, by region and state per capita, 13437

fee increases for selected procedures, magnitude and frequency, 10370

from abroad, 1966 and 1967, as immigrants, 10211

make your practice perfect, join Air Force Reserve, 6414

medical research institutions named after medical men, 7351

medical residencies and internships and hospitals, Public Health Service, 7422

nuclear handbook for medical service personnel, Army technical manual, 16601

opportunities in Medicine and Surgery Department, Veterans Administration, 11766

Physician Manpower Division, its mission and organization, 1190

Physician visits, United States, July 1966–June 1967, volume, 1353

postal field service, exempt from provisions of United States Code, hearing, 1708

Public Health Service, CORD, commissioned officer residency deferment program, 4897

role in our changing environment, 13371A

self-employed doctors of medicine under OASDHI, 8857

training, USSR study, 12903

uniformed services medical officers, active duty extension, continuation pay, report, 1728

USSR—

Central Institute for advanced training, 15959

training and primary specialization, new principle, 15934

you as Air Force physician, 106

see also Osteopathic physicians.

Physicists, employment outlook, 4537

Physics:

and chemistry of nucleation, Project Skywater conference proceedings, 13401

atmosphere and ocean, USSR studies, 15945

civilian career opportunities, Navy Department, 2360

East European abstracts, 2783

high temperature physics of materials, bibliography, 6049, 10176, 16226

journal of research, National Bureau of Standards, 3024

of high energies and cosmic rays, problems, 10160

of moon and planets, 13142

physicochemical properties of processes of microbiological oxidation of petroleum hydrocarbons, USSR study, 12876

plasmas, high-temperature, USSR study, 15984

progress in reactor physics, 5185

radio-physical studies of evaporation, 1966–67, at Lake Hefner, 12571

sound in the sea, 16318

space physics and astronomy, 11420

technical research, USSR, 861

USSR abstracts, 3568

see also Boundaries (physics)—Radio-physic.

Physics and Instrumentation Subcommittee, common laboratory instruments for measurement of radioactivity, report, 2415

Physics of combustion and explosion (USSR periodical):

translations, 868

Physiological reactions:

human responses to aerospace environment, compendium, 1024–26, 2188

monkeys to supralethal doses of radiation, 1542

review of physiological measurement techniques for applicability to space flight conditions, 4686

INDEX 1969

- Physiological technicians, Air Force, Medical Service training manual, 5075
- Physiology :
 changes associated with deprivation from smoking, 5927
 computation engineering, USSR study, 15921
 human, effects of acceleration, with special reference to transverse G, 81
 physiologic mechanisms producing disorientation, 11901
 physiological measurement techniques for applicability to space flight conditions, review, 4686
 physiological mechanisms analysis and ways of developing electroanesthesia method, USSR study, 2073
 physiological research on human tumbling, 6417
 physiological studies on air tanker pilots flying forest fire retardant missions, 10581
 physiological studies on Clostridium botulinum type F—
 progress reports, 5167-68, 6472
 summary, 5169
 relation of signal light intensity to physiologic end points during +G_x acceleration, 88
 response of normal man to graded exercise in progressive elevations of CO₂, 7635
see also Biodynamics.
- Phytoplankton, factors for phytoplankton blooms and effects on dissolved oxygen in Duwamish River estuary, Seattle, Wash., 7061
- PI series, 13320, 14771
- Pieattiny Arsenal, Dover, N.J., ammunition research and development, improve management, GAO report, 713
- Pieceance Creek, southern part of basin, paleocene and lower eocene units, 8339
- Pickering, R. J., distribution of radionuclides in bottom sediment of Clinch River in eastern Tennessee, 7050
- Picketing :
 District of Columbia, prohibit within 500 feet of any church, report, 12172
 situs picketing, hearings, 12215
- Pickett, Ellis B., prototype measurements of hydro-power plant transients, Garrison and Oahe Dams, Missouri River, North and South Dakota, 4215
- Picloram, soil-applied, for selective control of brush on chaparral watersheds, 14283
- Picnics :
 camping and picnicking in—
 Eldorado National Forest, 12673, 14252
 Tahoe National Forest, 14253
 wood picnic structures, market, 17041
- Picture story series, 56-58, 1517-18, 5062
 63, 13603, 16555-556
- Pictures, NASA picture sets, 13056-57, 14592-594
see also Paintings.
- Piebemga, L. W., dental calculus formation rate in submarine environment, 11371
- Piedmont Airlines, aircraft accident, 16284
- Piedmont National Wildlife Refuge, Jones and Jasper County, Ga., even aged forestry management, 1412
- Pierce, Clarence R., resonance integrals of rhodium for wide range of sample sizes, 1142
- Pierce, Margaret H., cases decided in Court of Claims, 523, 9509
 nomination, hearing, 1740
- Pierce, Marie-Louise (Mary Louise), relief, 4038
- Pierce, William S., factors influencing low-cycle crack growth in 2014-T6 aluminum sheet at -320° F. (77K), 7298
- Pierce County, Ga., soil survey report, 4943
- Pierre shale, *see* Shale.
- Piers, floating fishing pier, 6321
- Piersol, A. G., method for predicting launch vehicle vibration levels in region of spacecraft adaptor, 4665
- Piezoelectric accelerometers, *see* Accelerometers.
- Piezoelectricity :
 high-pressure piezoelectric ceramic transducer, USRD type P43, 7389
 piezodialysis research, 14405
- Pig iron, *see* Cast iron.
- Pigeon Creek :
 flood plain information, 12472
 floods in Bentleyville, Fallowfield township and Somerset township, Pa., how to avoid damage, 12485
- Pigeons, wild, and white-winged doves, hunting, possession, transportation, importation, Federal regulations governing, 13461
see also Mourning doves.
- Pigments, synthetic organic, production and sales, 1470, 14941
- Pigs, *see* Swine.
- Pike County, Ark., community profiles, 15591
- Pike County, Ga., convey mineral rights to, 16768
- Pike County, Pa., soil survey report, 11677
- Piketon, Ohio, hydrogeology of Scioto River Valley near Piketon, south-central Ohio, 9933
- Pile driving, *see* Piles and pile driving.
- Piles and pile driving :
 pole and piling production in Midsouth, 1939
 reinforced plastic piling, feasibility study, 1820
 setting up sheet piles, construction industry safe workguide, 17149
 steel piling in seawater, corrosion and protection of, 14149
 strength evaluation of round timber piles, 7019
- Piling, *see* Piles and pile driving.
- Pillage :
 riots, looting, and burning—
 administration of justice in D.C. during and after civil disorders of Apr. 1968 and in riot-related prosecutions, 13322
 subversive influence, hearings, 425-426, 4005, 7977
 print additional copies, reports, 10753, 12278
- Pillars (mine), *see* Mine pillars.
- Pillowcases, current industrial reports, 9145
- Pilot guides, *see* Coast pilots.
- Pilot plants :
 reverse osmosis—
 for desalination of sea water, 11286
 operation, 9964
 operation of 50,000 gpd portable, 12825
 San Diego, Calif., test, 14406
 transport depletion evaluated with natural brackish water, 8835
 tubular reverse osmosis, 1000 gallon per day, design, fabrication and testing, 9966
- Pilots and pilotage :
 air tanker pilots flying forest fire retardant missions, physiological studies, 10581
 certificated private pilot, study to determine flight profile and mission, 13646
 fixed-base simulator pilot rating surveys for predicting lateral-directional handling qualities and pilot-rating variability, 14615
- Great Lakes and St. Lawrence Seaway pilotage services, agreement with Canada, 16474
- Great Lakes regulations, 12061
- human transfer characteristics in flight and ground simulation for roll tracking task, 4734
- human visual sampling processes, simulation validation study, 2208

Pilots and pilotage—Continued
measurement of pilot describing functions
in single-controller multiloop tasks,
4669

peripheral vision cues—

effect on pilot performance, 5194

pilot response during instrument flying
tasks, 6481

physical training significance, 6415

pilot-controlled descents of an advanced
Apollo spacecraft with all-flexible par-
awing, fixed-base visual simulation, 7255

pilot describing function method applied
to manual control analysis of large flexi-
ble booster, evaluation, 11447

pilot dynamics with visual and motion in-
puts, experiments and a model, 10076

systems developed for reducing workload
and improving tracking accuracy dur-
ing noise-abatement landing approaches,
flight investigation, 17202

yellow lenses in Air Force operations, 3701
see also Aviators.

Pinal County, Ariz.:

community action program, effectiveness
and administration, GAO report, 11210

Neighborhood Youth Corps program, ef-
fectiveness and administrative efficiency,
GAO report, 14311

Pinch, *see* Plasma.

Pine:

assessing potential oleoresin yields of slash
pine progenies at juvenile ages, 7012

Choctawhatchee sand pine plantation yield,
9858

differential response of slash pine families
to drought, 9859

early growth and development of 4 pine
species in Hawaii, 17034

eastern, white—
characteristics of blister rust cankers,
17025

seed sources in Lake States, early
growth, 4308

Erambert's hybrid, graphic analysis, 8298

loblolly—
recommended for local seed sources in
Maryland, 17049

row thinnings in plantations of eastern
Maryland, ten-year effects, 7008

volume tables and point-sampling fac-
tors, Tennessee, Alabama and Geor-
gia highlands, 8313

lodgepole—
needle miner infestations east of Sierra
Crest, 681

sawing to reduce warp of lodgepole pine
studs, 11181

timber, response of deer to alternate-
strip clearcutting in Colorado, 14284

longleaf—
annotated bibliography, 4331

brown-spot needle blight, 14263

foliage weight and stem growth, 8304

Louisiana plantation, climate at seed
source affects performance, 8296

mountain, excels only in local plantings,
8301

regeneration in mountain and Piedmont
provinces of Alabama, 1930

management pays off, 11746

Missouri plantation, fuel evaluation, re-
leased by aerial spraying, 4319

pine seedworm, field screening of insecti-
cides for control 7013

ponderosa—
bark composting, effects of nitrogen addi-
tion and aeration, 5678

Black Hills, preliminary evaluation of
small-diameter for veneer and ply-
wood, 5669

bud characteristics, related to potential
damage by European pine shoot moth,
8292

crop-tree thinning in Pacific Northwest,
12704

Pine—Continued

ponderosa—continued

demonstration cuttings in central Ari-
zona, snow accumulation and melt,
1919

Elythroderma disease, in Pacific North-
west, 12711

fire prescription for consuming duff,
1923

forest, deer and elk use in Arizona be-
fore and after timber harvest, 14282

forest floor in Arizona, characteristics,
9847

forests in Arizona thinning, clearcut-
ting, and reseeded affect deer and
elk use, 5671

needles, ammonium nitrate encourages
decomposition under laboratory con-
ditions, 9855

pole-sized, periodic growth as related to
thinning and selected environmental
factors, 694

pruning, effect on growth, 4330

red, do pine gall weevils affect cone pro-
duction? 11175

regenerating in northern Mississippi, clear-
cutting and planting best, study, 8299

regional variation in specific gravity, in
southern United States, 11186

sawtimber price behavior in South Caro-
lina, 11190

shortleaf—
recommended for local seed sources in
New Jersey and Pennsylvania, 17049

volume tables and point-sampling fac-
tors, Tennessee, Alabama, and Georgia
highlands, 8317

slash—
control of insects with trunk implanta-
tions of Bidrin systemic insecticide,
1st-year results, 9864

growth and flowering of clones under
intensive culture, early results, 11187

seedling growth and development, effect
of seed source and fertilization, 9869

southern—
attacks by black turpentine beetle and
Dorycteria amatella, 7017

dimension lumber, no. 2 dense kiln-dried,
properties, 687

hybrids in south Mississippi, perform-
ance, 8314

industry problems conference, 4098

log grades for yard and structural lum-
ber, 1933

pitch canker, 11162

plywood industry, potential growth,
11189

replacement planting unsuccessful, 8303

root growth of direct-seeded seedlings,
8297

spraying not practical for tip-moth con-
trol, 1931

tree grades for yard and structural lum-
ber, 1934

yellow pine tree overruns and lumber
width distributions, 1935

Pine gall weevils, *see* Weevils.

Pine Hall Brick and Pipe Co., relief, 8017

Pine Ridge Indian Reservation:

Ogala irrigation project, cattle enterprise,
S. Dak., 9949

reservation industrial employment, social
and economic effects on Indian employ-
ees and their families, 9950

Pine seedworm, *see* Moths.

Pine shoot moths, *see* European pine shoot
moths.

Pink bollworm, *see* Bollworms.

Pink salmon, *see* Salmon.

Pinnacles National Monument, general in-
formation, 4805

Piñon, pinyon-juniper type of Arizona, herb-
age production differs with soil, 9851

INDEX 1969

- Plus:**
classification definitions, 11574
Federal item identification guide, 5489, 14087
- Pioneer, see Satellites.**
- Pioneer (USC&GS):**
Indian, Indian Ocean Expedition, bathymetry, geomagnetic, and gravity data, 15151
- Pipe and pipe fittings:**
butt-weld pipe, effects of importation on workers of Weld Mill, Ambridge, Pa. plant, Armco Steel Corporation, Tariff Commission report, 17415
cooled pipe, transient solidification outside, with application to solar Brayton heat receiver, 1114
culvert and pipes, engineering and design manual, 5570
Federal item identification guides for supply cataloging, supplements, 2845
heat pipe devices for space suit temperature control, 16127
heat pipes, use in nuclear thermionic space power system concept, 10152
hose, pipe, and tube fittings, quick disconnect and self-sealing, Federal item identification guide, 16916
incompressible turbulent swirling flow in pipes, analytical investigation, 1006
Mach 2.5 axisymmetric inlet with engine or cold pipe and utilizing 60 percent supersonic internal area contraction, dynamic response, 13116
pipe-arch culverts, hydraulic analysis, electronic computer program, 4905
pipe, metallic, Federal item identification guide, 534, 15511
piping, valves, fittings, and associated piping components for surface ships, schedule, military standard, 1790
Pipe fitters, employment outlook, 4535
- Pipe lines:**
gas and liquid pipeline safety, hearing, 6720
natural gas—
maps, 9782, 9789, 15720
pipeline safety act of 1968—
administration, annual report of Secretary of Transportation, 13505
progress in implementing, hearing, 16879
pipeline systems, economical offshore systems design, study, 12443
safety regulations oversight, hearing, 16879
sales by producers to interstate pipeline companies, 8213
statistics for interstate companies, 16994
supplies of interstate companies, 12618
oil, transportation revenue and traffic, 3527
pipeline and compressor station construction under non-budget type of certificate authorizations as reported by pipeline companies in fiscal year 1968, cost, 14212
trans-Alaska pipeline, construction plans, status, etc., hearings, 15463
- Pipelines, see Pipe lines.**
- Piper, Arthur M.:**
potential applications of nuclear explosives in development and management of water resources, preliminary canvass of groundwater environment, 5171
water budget of Carson Valley, Nevada, 8351
- Pipirings, G. N., Chinle (Upper Triassic) and Sundance (Upper Jurassic) formations in north-central Colorado, 7045**
- Piqua power reactor, see Reactors (atomic).**
- Piracy, see Air piracy.**
- Proplasmosis, equine, reports, 3625, 11796**
- Pru Creek, watershed, sedimentation, 1974**
- Pitch, perception in white noise mask, 7197**
- Pitch (motion):**
pitch of 1/7-scale model of 2- and 3-stage rocket configuration, aerodynamic characteristics, 14626
pitching-moment characteristics of series of low-aspect-ratio-wing-body combinations at transonic speeds, 1051
- Pitch control motors, flight investigation of lightweight helicopter to study feasibility of fixed-collective-pitch autorotations, 11476**
- Pitch pine, see Pine.**
- Pitchman's pitch to pitchmen (address), 16648**
- Pitkins, James A., airborne measurements of terrestrial radioactivity as aid to geologic mapping, 1965**
- Pittell, Ernest E., simplified theory and transducer potentialities of pinch effect in semiconductors, 8624**
- Pitts, Donald G., effects of ultraviolet radiation on the eye, 10530**
- Pitts, Mary L.:**
art of war, 11913
war, selected references, 15022
- Pittsburgh, Pa.:**
area wage survey, 11348
Metropolitan Intrastate Air Quality Control Region, report of consultation, 6202
- Piven, Herman, crisis of qualified manpower for criminal justice, analytic assessment with guidelines for new policy, correctional institutions, 13432**
- PL 480 newsletter, 3071**
- Pitue mining, see Gold.**
- Placement:**
college placement officers, employment outlook, 4493
manpower services, reference guide to job recruitment, training, and placement aids, 5883
- Placentic Sound, marine biofouling, 1960-68, 16293**
- Placer deposits, placer examination, principles and practice, 17161**
- Placer examination, principles and practice, 17161**
- Plaffer, George, effects of earthquake of Mar. 27, 1964, on various communities, 14346**
- Plague:**
in soil, USSR, reports, 850
natural foci, USSR studies, 8520
- Planar plasma source, 16607**
- Plane coordinates, see Coordinates.**
- Plane stress, see Strains and stresses.**
- Planers (tools):**
planers and shapers, industrial plant equipment handbook, 5480
- Planetary atmosphere, see Atmosphere.**
- Planetary-interplanetary program, research problems in atmosphere entry and landing for manned planetary missions, 4714**
- Planetology, see Planets.**
- Planets:**
effects in motion of natural satellites, 16153
exploring moon and planets, 10093
interplanetary missions, scientific heritage, from E. A. Tsander's lectures, reports, etc., 10161
interplanetary probe missions with solar-electric propulsion systems, 13097
motive forces in development of earth and planets, 11504
observations made with 6-inch transit circle 1956-62, correction to FK4, GC, and N30, 14724
physics of moon and planets, 13142
planetary film reconnaissance system, 11412
planetary flight handbook, 11426, 13058
planetary probe guidance accuracy influence factors for conjunction-class missions, 4701

Planets—Continued

planetary radar altimeters, analysis of terrain bias error, 10136
spacecraft orbiting planets or moon, external thermal-radiation heat loads and temperatures, computer program for calculating, 6023

see also Earth.

Plankton, five species of deep-water cyclopoid copepods from plankton of Gulf of Alaska, 14860

see also Phytoplankton—Zooplankton.

Planners, *see* City planners.

Planning:

abstracts of "701" planning reports, HUD, 6332, 8927

airport capacity criteria used in long-range planning, 9735

airport planning and airport layout plans, 1848

Army aviation facilities, technical manual, 3776

Army programs, line of balance, AMC pamphlet, 133

community junior college facilities, guide for planning, 8170

cooperative area manpower planning system, concentrating manpower services against poverty, 7163

coordinated data system for highway planning, 7436

drug abuse education workshop for teachers, how to plan, 16347

housing, building and planning, overseas missions, bibliography, 15838

kitchen planning guide, 15709

personnel management programs, bibliographic survey, Army pamphlet, 16593

planning and administration, training methodology, annotated bibliography, 8819

planning and administrative personnel in local government, pilot study, 14461

planning and designing functional facilities for industrial arts education, 584

quality in motor vehicle safety standards (remarks), 16241

radiation shielding for architects, fundamentals, 266

RDT & E management guide, Navy Dept., 14758

reports, selected abstracts, 17082

safety program planning, construction industry occupational safety aid, 17153

Soviet public health, USSR study, 5932

State airport system, guide, 5090

toward national policy for planning the environment (remarks), 784

urban & regional information systems, support for planning in metropolitan areas, 5749

urban planner in health planning, 4902

see also Organization.

Planning (economics), *see* Economic development—Economic policy.

Planning (programming), *see* Programming (planning).

Plans, *see* Architecture.

Plans for Progress, press releases, 3319

Plant diseases, *see* Diseases of plants.

Plant lice, aphids on leafy vegetables, how to control them, 16537

Plant pests, *see* Pests.

Plant science, *see* Botany.

Plantations:

loblolly pine—

eastern Maryland, ten-year effects from row thinning, 7008

thinned white spruce plantation 15-year growth, 11176

on abandoned fields in Tennessee, Alabama and Georgia highlands, 8313

Planting:

classification definitions, 1277

home, by design, 3641

Planting—Continued

obtaining uniform planting depths in soils containing cotton plant residue, probabilities, 11790

see also Crops—Forest planting—Tree planting.

Plants:

classification definitions, 11585

desiccation of woody stems, influenced by connected live tissues, 11178

ecology and esthetics, highway research and development news, 8825, 13386

ecology of arid basin Tres Alamos-Kedington area southeastern Arizona, 4361

factors for phytoplankton blooms and effects on dissolved oxygen in Duwamish River estuary, Seattle, Wash., 7061

Fais, Caroline Islands, collection, 17371

flora of Sierra Ancha Experimental Forest, Ariz., 696

foliage, production and sales, etc., 7529, 10500

Gebel 'Uweinat, Libyan Desert, habitats, flora, mammals, and wasps, 13423

growth effects, coal-derived humus, 981

growth inhibitors, species interactions in native plants of northern Arizona, 1921

Indian Ocean islands, western, collected on cruise of M.F.R.V. Manihane, 17371

inventory, materials received by New Corps Research Branch, 6363, 7575, 11798

live plants, trade and tariff information, summaries, 8912

needs of plant resource science outlined, USSR study, 12917

Ozark range and wildlife plants, 5027

patents, questions and answers frequently asked, 14766

plant materials annual progress report—Louisiana, 16436

Mississippi, 16437

plant pests, help stop spread of, 13601

publications, price list, 2405

quarantine import requirements—

Barbados, 10464

Brazil, 15

British Solomon Islands, 11799

Cyprus, 14976

Denmark, 7576

El Salvador, 16

foreign countries for logs and lumber, 14977

foreign countries, summaries, list, 10

France, 13547

French Guiana, 13548

Germany, Federal Republic, 3629

Guadeloupe, 13549

Iran, 13550

Jersey, 7577

Martinique, 13551

Netherlands, 14978

Réunion, 13552

Rumania, 17

South Africa, 5023, 11800

Sweden, 10465

Turkey, 14979

Union of Soviet Socialist Republics, 18

quarantine notices under Plant quarantine act, P.P.C. series, 3234

quarantines, protecting farms and gardens, 8978

resistant, developing, ideal method of controlling insects, 15006

Satawal Island, Caroline Islands, description, 17371

systematic studies, title page and contents, 7354

Wake Island flora, description, 8851

woody ornamental, marketing practices and trends of nurseries in Louisiana, 12412

see also Diseases of plants—Vegetation—also names of plants.

Plants (Industrial):

- AEC's gaseous diffusion plants, future ownership, selected materials, 10687
- defense industrial plant equipment center operations, DSA manual, change, 8117
- defense-oriented industries, shipments, 1967, current industrial reports, 13762
- desalting plants inventory report, 795
- egg grading and processing plant for high-volume production, 6384
- equipment handbooks—
 - aircraft maintenance and repair shop specialized equipment, 6827
 - combination and miscellaneous instruments including dynamometers, 527
 - machining centers, way type machines, electrical and ultrasonic erosion machines, 5482
 - miscellaneous machine tools, 6829
 - photocopying and photographic equipment, 4124
 - planers and shapers, 5480
 - portable machine tools and toolroom layout, plates and tables, 8113
 - rubber and plastics working machinery, 6828
 - welding, heating, cutting and metalizing, equipment, 5481
- 50,000 GPD portable reverse osmosis pilot plant, design and fabrication, 9969
- food plant employees, sanitation guidelines (poster), 11150
- Government-owned, contractor-operated, differences in allowing corporate expenses, GAO report, 705
- inland desalting, disposal of brine effluents, review and bibliography, 14407
- manufacturing employment structuring, changes, 1630
- membrane desalting plants, pretreatment methods, cost effectiveness study, 9967
- movement, transfer, and relocation allowances, major collective bargaining agreements, 14451
- plant shutdown, helping workers locate jobs following, 8563
- poultry and egg, operating under USDA inspection and grading programs, list, 509
- prime-mover dynamo plants, classification definitions, 11582
- safeguarding classified information, security manual, 12361
- tours for international visitors to U.S., 4995
- 250-MGD multistage flash distillation plant with 2-level brine flow, design and cost estimates, etc., 15853
- under USDA, continuous inspection, processed fruits and vegetables, etc., list, 15481
- using adhesives in small plants, 11661
- vapor compression test bed plant, Roswell, N. Mex., annual report, 9963
- VTE saline water plants, development of mathematical model and computer program for optimization, 8417
- see also Osmosis—also types of industrial plants.

Plasencia, Miguel A. Garcia, see Garcia, Miguel A.

Plasma:

- absorption of high-frequency energy near lower hybrid frequency, 15068
- accelerator with magnetic field arranged to produce divergent-nozzle effect, 7289
- argon-tungsten and argon-uranium plasmas, theoretical investigation of composition and line emission characteristics, 10073
- artificial ionospheric plasma cloud evolution as studied by HF and VHF radar, 13290
- calorimetric measurement of superhigh-frequency power, 16612

Plasma— Continued

- confined, anomalous absorption of cyclotron waves, 16617
- confined in open-ended geometry, international conference, proceedings, 1598
- confinement in stellarators, 16616
- continuity-equation plasma oscillation to pulsars and other periodic astrophysical phenomena, possible applications, 7264
- dense, hydrodynamic theory of stability of laminar flux, 16615
- determination of plasma parameters produced by super-high-frequency power in magnetic field steady-state condition, 15064
- diameter of plasma in propulsion rocket plume, estimating, 14746
- electromagnetic waves on dielectric rad immersed in plasma, analysis, 1089
- electron confinement region for electron-cyclotron resonance in magnetic trap with plugs, 5139
- flare-fresh solar plasma in interplanetary space front, apparent local jump in momentum transfer rate, 10249
- generation using large V-groove cathode discharge, 13085
- hot, production during injection of clusters of fast atoms into magnetic traps, 5143
- hydrogen, plasma components, including minor species, 4723
- induction heated, argon-tungsten and argon-uranium, experimental investigation of spectral emission characteristics, 8593
- induction heating, high power, low frequency operation and pure hydrogen heating, 10083
- influence of interelectrode distance on stability of straight pinch in quadrupole high-frequency field, 6466
- inhomogeneous hot plasma flow, instability, 15065
- insulin, coated charcoal radioimmunoassay for, 6420
- ion flux and target plasma interaction during charge exchange, 5144
- ionized argon plasma, superhigh-frequency generation, 16606
- linear wave transformation in inhomogeneous magnetoactive plasma, 16613
- mechanisms of plasma jet cutoff by transverse magnetic fields, investigation, 5142
- microwave radiometric techniques for re-entry plasma measurements, laboratory study, 13087
- nonequilibrium cesium plasmas probed by multifrequency helium-neon laser, refractive index, particle density correlation, 11498
- one-dimensional plasmas, computer experiments on microscopic behavior, 1067
- optically dense plasma with radiative thermal conductivity theory of equilibrium and stability of high-current self-compressed discharge in, 15062
- oscillations in stellarator L-1 quasi-steady electric fields, studies, 15066
- parametric interaction of superhigh frequency field with plasma, theory, 15071
- physics of high-temperature plasmas, USSR study, 15984
- pinch effect in semi-conductors, simplified theory and transducer potentialities, 8624
- planar plasma source, 16607
- plasma and electromagnetic waves, induced Compton effect, under astrophysical conditions, 15063
- R-F induction heated, theoretical investigations, 8592
- radiation process in astrophysics, 15069
- radiation scattered from plasma, feasibility of detecting, 16154
- semiempirical collision model for plasmas, 10156

- Plasma—Continued
 strongly inhomogeneous, absorption of electromagnetic waves in, 16614
 studies of electron heating mechanism during electron beam interactions with plasma, 16605
 theta-pinch causes of magnetic-field non-uniformity and its effect on stability, 10154
 turbulent, electromagnetic properties, 16618
 X-ray continuum radiation in plasmas, determination of electron temperatures between 50 eV and 100 keV from, 6139
- Plasma (blood), *see* Blood.
 Plasma arcs, *see* Plasma jets.
 Plasma jets, ablating materials in arc plasma jets, comparative evaluation, 2190
 Plasma slab, input admittance and reflection coefficient of circular aperture in ground plane covered by homogeneous dielectric or plasma slab, 1008
- Platt, William T., tree survival and growth on fescue-covered soil banks, 15757
- PLASTECH reports, 12376, 15532
- Plasterers, employment outlook, 4487
- Plastic strain, *see* Strains and stresses.
 Plastic stress, *see* Strains and stresses.
 Plasticizers, production and sales, 4990
- Plastics:
 article shaping or treating, processes, classification definitions, 11580
 directory, knowledgeable Government personnel, 15582
 fluorocarbon in epoxy plastics, 14747
 films, investigations for canal linings, 16392
 flow in locale on notches and cracks in Fe-3Si steel under conditions approaching plane strain, 2447
 foam, flame spread tests, 601
 greenhouse framing for plastic covering, farm building plan, 3657
 mattress handles from Canada, determination of no injury to U.S. industry, 16493
 packaging, structure, growth patterns and prospects, 6486
 PLASTECH reports, 12376, 15532
 production and sales, 6319
 products, manufacturing, industry trend, 7729
 shipments of selected products, 1967, current industrial reports, 6499
 surface chemistry reinforced by strong fibers, 14755
 surfaces, process for imprinting micro lagoon fields in, for use in cell and tissue culture, 11470
 U.S. production and sales, preliminary report, 3265
 working machinery, industrial plant equipment handbook, 6828
see also Laminated materials—*also* names of articles made from plastics.
- Plastics Technical Evaluation Center, PLASTECH reports, 12376, 15532
- Plateau, Mont., railroad accident, report, 11096
- Plateris, Alexander A., divorce statistics analysis, 16378
- Plates:
 aluminum, ballistite limit determined by exploding foil gun technique, 1047
 cones, etc., force-penetration characteristics of sand horizontally penetrated by, 4673
 coupled acousto-mechanical systems, transient response, 14588
 edge-stiffened rectangular, subjected to loads and temperature gradients, plane-stress analysis, errata, 2182
 flat—
 stiffness matrices for analysis, study, 2237
- Plates—Continued
 flat—continued
 submerge in turbulent boundary layer at Mach 2.49 and 4.44, flow-field measurements downstream of two protuberances, 14608
 suspended in narrow channel, flow-induced vibrations, 1013
 forces and moments due to air jets exhausting parallel to forge flat plates in near vacuum, 8630
 impulsive motion on flat plate pulsed with uniform heat flux, 10151
 infinite elastic plate, response to axisymmetric initial velocity distributions with application to hypervelocity impact, 8621
 notched and welded, effect of repeated loads on low temperature fracture behavior, 1376
 plates sealing incompressible liquid, 3746
 sandwich, maximum load prediction, 11951
 semi-infinite, diffraction of cylindrical hydroacoustical wave at junction, USSR study, 15952
 three-phase heat transfer, transient condensing with freezing on nonisothermal inclined plate, 13093
 use of small and large displacement data from essentially elastic buckling tests on columns and plates to correlate theory and experiment, 13673
- Platform trucks, *see* Motortrucks.
- Platforms:
 high speed hydrographic Surveymarine, 10222
 loading environment and related requirements for platform rigged airdrop material, military standard, 543
 modular extravehicular activity work platform, study, 10091
 primate equilibrium platform in radiation environment, research, 1545
- Platforms (loading), *see* Artificial islands.
- Plating:
 brush plating, electro deposition, military standard, 8137
 titanium-plated steel in chloride environment, evaluation, 2013
- Platinum:
 analyses of ultramafic and mafic rocks from Stillwater complex, Mont., 9894
 anodic oxidation of hydrogen on platinum in sodium hydroxide solution, 6137
 electrode, in high purity closed alkaline systems, potentiostatic current-potential measurements, 2353
 liquid, vapor pressures, 2,045° to 2,442° K, 11386
 metals—
 economic geology, 12785
 mineral industry survey, quarterly, 3256
 platinum and associated elements at New Rambler mine and vicinity, Albany and Carbon Counties, Wyo., 1962
 platinum-catalyzed combustion and ionization, effect of oxygen concentration, 13284
 platinum-group metals—
 mineral industry surveys, annual, preliminary, 7211
 minerals yearbook chapter, 972, 16095
- Platt, John D. R., United States independent treasury system, 13199
- Platt, Robert J., Jr., parametric analysis of surface temperatures of paraboloidal solar concentrators in space, 8628
- Platt National Park, general information, 1228
- Platte River and Valley, water supply outlook and snow surveys, 3584
- Plant, Thomas F. A., some major issues in developing community services for persons with drinking problems, 4898
- Play, planning safe snow play sites, 12692

- Playas, playa surface morphology, miscellaneous investigations, 1534
- Playgrounds:
 American's national forests, skiing, 3663
 children's play areas and equipment, Army technical manual, 6441
- Pleasant Valley Canal, change name to Conalinga Canal, report, 15278
- Pleasant, Wylo, relief, 13900
- Pleasant Western Lumber Co., relief, 13900
- Pleasant's Logging & Milling, Inc., relief, 13900
- Plebuch, Raymond O., water resources of Clark, Cleveland, and Dallas Counties, Ark., 12798
- Pleistocene period, *see* Glacial period.
- Plotters:
 device for producing both hard copy alphanumeric listings and digital data plots, 16201
 hydrographic survey data reduction by automatic plotter, 13216
- Plowshare program (civil, industrial, and scientific uses for nuclear explosives):
 AEC authorizing legislation, 1970, hearings, 9243
 peaceful uses for nuclear explosives, report, 13705
- Project Buggy, preshot geologic and engineering properties, investigations, 13704
- Project Gasbuggy, 7698-700
- Project Pre-Gondola, 1603
 geologic investigations and engineering properties of craters, 11960
- reports, 1600-3, 3803-6, 5170, 7696-97, 7702, 7719, 13706
- underground emplacement of nuclear explosives, construction techniques and costs, 13708
- Plugs:
 Federal item identification guide, S123, 13259, 13500
 plug and shroud geometry variables, effect on plug-nozzle performance at transonic speeds, 7275
- Plumlee, Harry E., effect of jet temperature on jet and pure tone noise radiation, 17211
- Plumbers, employment outlook, 4535
- Plumbers' supplies, plumbing fixtures, current industrial reports, 235, 2733
- Plumbing, equipment, Federal item identification guides for supply cataloging, supplements, 2845
- Plumbing fixtures, *see* Plumbers' supplies.
- Plumes, *see* Jet plumes.
- Plunkett (U.S.S.):
 loan, extension, agreement with Republic of China, 14924
- Pluto (planet):
 Jupiter swinging missions to Saturn, Uranus, Neptune, and Pluto, general discussion, contour charts, planetary flight handbook, 11426
 theory of motion, 2270, 4757
- Plutonium, use in ENEL water reactors, results of enquiry into prospects, 1595
- Plutonium oxides, PuO_2 microspheres reentry behavior, analyses and experiments, collation and experiments, 5184
- Plymouth County, Mass., soil survey report, 14879
- Plywood:
 Black Hills ponderosa pine for plywood, preliminary evaluation of small-diameter trees, 5669
 Federal item identification guides for supply cataloging, supplements, 2845
 lumber and plywood supply, situation report, 11167
 plant glue wastes disposal, progress report, 6988
 price increases, hearing, 9338
 prices, investigation, authorization, report, 6666
- Plywood—Continued
 softwood—
 construction and industrial, standard of trade, 14668-669
 current industrial reports, 9146
 southern pine plywood industry, potential growth, 11189
- Plzak, Vivian, further survey of compounds for radiation protection, 13629
- PMG series, 1750, 9505, 14066, 16903
- Pneumatic conveyers, *see* Conveyers.
- Pneumoconiosis, HEW's eight-point program to combat coal miners contracting (remarks), 10307
- Poehontas, Ark.:
 Black River, Town, and Mansker Creeks, floods, how to avoid damage, 4209
 flood plain information, 4202
- Pocket data book, USA 1969, 7749, 7854
- Pocket guides:
 Middle East, 16579
 Okinawa, 3732
 Philippines, 10537
 State Department foreign policy information materials and service, 10417
- Pocono Mountains, climatic summaries of resort areas, 5576
- Podesta, Robert A.:
 addresses, etc.—
 July 16, 1969, 12065
 July 30, 1969, 12387
 Aug. 10, 1969, 12395
 Oct. 22, 1969, 16936
 nomination, hearing, 6802
- Podgor, S., empirical approach to thermal neutron absorption cross sections, 2359
- Podiatrists, *see* Chiroprodists.
- Podiatry, *see* Chiroprody.
- Podolak, Edward, biomedical applications of commercial capacitance transducer, 5193
- Podsiadlo, Ronald T., comparison of reported solar flare, occurrence times and flare patrol times, 1552
- Poehلمان, Dorothy J., equal employment opportunity, selected references, 9736
- Poetry, metaphor as pure adventure (lecture), 908
- Poinsett County, Ark., community profile, 15592
- Point Conception, Calif., radiol isotopic sand tracer study, preliminary report on accomplishments, 15646
- Point defect calculations in tungsten, 1131
- Point Reyes National Seashore:
 general information, 2320
 land acquisition, appropriation of additional funds, authorize, hearing, 12229
- Point sampling, *see* Volume and yield tables.
- Pointers for the veteran homeowner, 6342
- Polson ivy, identification, precautions, and eradication, 34
- Polson oak, identification, precautions, and eradication, 34
- Polson Ridge, Colo., volcanic center and related mineralization, Grand and Jackson Counties, Colo., 5706
- Polson sumac, identification, precaution, and eradication, 34
- Poisoning, animal, USSR studies, 2053
- Poisonous gases, *see* Gases.
- Poisonous plants, *see* names of toxic plants.
- Poisons:
 antimycin A as fish toxicant—
 field trials, 10393
 laboratory studies, 10393
 field trials of antimycin as selective toxicant in channel catfish ponds, 10393
 indolylalkylamines as radioprotectants, 3713
 National Clearinghouse for Poison Control Centers, bulletins, 3159
 organic herbicides, toxicity to cattle, sheep, chickens, 8989
 toxic, and medicinal, fluorocarbon compounds, USSR study, 4449

Poisons—Continued
toxicity bibliography, 3502
toxicity of—
 methylpentynol to selected fishes, 10394
 pesticides to crustacean *Gammarus lacustris*, 10400
 quinallidine to selected fishes, 10392
 see also Food poisoning—Poison ivy—
 Toxins.
Poisson's ratio :
 determining dynamic properties of snow
 and ice by forced vibration, 15039
 transformations of elastic constants for
 anisotropic media by successive simple
 rotation, 7214
POL, see Pacific Oceanographic Laboratory.
Poland :
 agricultural commodities, agreement, 7494
 capsule facts for Armed Forces, 3725
 economy, basic data, 12070
 fisheries, middle Atlantic Ocean, western
 region, agreement, 14915
 in collections of Library of Congress,
 overview, 10037
Polar regions, see Antarctic regions—Arctic
 regions.
Polaris (star), see Pole star.
Polarization (electricity) :
 reverse osmosis desalination of water,
 concentration polarization control, 15863
Polarization (radio) :
 parabolic antennas with cross-polarized
 fields, USSR study, 5834
Pole star, ephemeris, 17160
Poles :
 climber sets, military standard, 8139
 pole and piling production in Midsouth,
 1939
 reinforced plastic utility poles, feasibility
 study, 1520
 sectional aluminum poles improve length
 measurements in standing trees, 7014
Police :
 Air force, operation of correction facilities,
 3684
 appointments to U.S. Park Police, mini-
 mum and maximum age limits, estab-
 lish—
 law, 16739
 reports, 12263, 15262
 black militants and police, shoot-out in
 Cleveland, 13326
 Boston Police Department, reports, rec-
 ords and communications, system im-
 provement study, LEAA project report,
 873
 Cincinnati police-juvenile attitude project,
 demonstration project in police-teacher
 curriculum development to improve
 police-juvenile relations, 872
 District of Columbia—
 Canine Corps, expand, report, 7908
 Metropolitan Police Department Band,
 include members of Fire Department,
 etc., 12178
 retirement benefits, equalize for totally
 disabled, report, 12174
 survivor benefits for widows of retired
 members, report, 12173
 National Zoological Park, revise pay struc-
 ture—
 law, 12119
 reports, 9298, 10853
 patrolman qualifications in relation to
 field performance, psychological assess-
 ment, 8530
 policemen and policewomen, employment
 outlook, 4508
 White House Police, adequate force, au-
 thorize, hearing, 16822
 see also Military police.
Policemen, see Police.
Policewomen, see Police.
Policy and supporting positions, 414

Poliomyelitis, surveillance, National Com-
municable Disease Center annual summary,
11621
Polistes, see Wasps.
Political activities, see Politics.
Political advisers to U.S. military com-
manders, analysis and assessment, 6787
Political campaigns, see Elections.
Political economy, see Economics.
Political science, Ponape Island, native pol-
ity, 2315
Political scientists, employment outlook,
4552
Politics :
 Alaska-Northwest Canada, regional, politi-
 cal, and communications aspects of
 development relations, 14195
 current Soviet political and sociological
 news, 2054
 Eastern Europe, translations, 3508
 hamlet security in Vietnam, measuring,
 special study mission, report, 5358
 legal-political arrangements for develop-
 ment of marine resources, national pro-
 gram, Marine Science, Engineering and
 Resources Commission panel reports,
 10285
 political advisers to U.S. military com-
 manders, analysis and assessment, 6787
 political education of scientists discussed,
 USSR study, 5867
 political events, news, USSR study, 2066
 political influence in appointment of post-
 masters, eliminate, amend, U.S. Code,
 hearings, 9488
 political institutions, and water resources
 policy, report panel on needed research,
 6943
 political relations, 1910-29, records of
 State Department, pamphlet accom-
 panying microcopy :
 U.S. and Italy, 10168
 U.S. and Siam, 10170
 politics of pollution, transcript of radio
 presentation, 1344
 politics of protest, violent aspects of pro-
 test and confrontation, 13324
 Rural Electrification Administration's bul-
 letin inhibiting political activities by
 its borrowers and their employees—
 hearing, 13932
 report, 16779
Polizos, Nikolas G., relief, 13968, 16732,
16752
Polk, James K., papers, index, 12990
Polk County, Ark., community profile, 15593
Polk County, Oreg. :
 flood plain information, 12483
 floods, how to avoid damage, 12502
Pollack, Frank G., surface temperature map-
ping with infrared photographic pyrometry
for turbine cooling investigations, 10121
Pollen, contamination, cooling Douglas-fir
seed orchard to avoid, 12705
Pollio, Joseph, applications of underwater
photogrammetry, 13240
Pollock, Richard L., tax depreciation and
need for reserve ratio test, 2532
Pollution caused fish kills, 15743
Pollution of air, see Air pollution.
Pollution of streams, see Water pollution.
Pollution of water, see Water pollution.
Polone, Dock J., soil survey, Washington
County, Okla., 6248
Polyamides, solvent-cast thin films of, wet-
tability and Mair infrared spectroscopy,
2354
 see also Amides.
Polyatomic molecules, see Molecules.
Polycarbonates, see Carbonates.
Polychaeta :
 Benthic, from Puget Sound, Washington,
 with remarks on four other species, 2314
 revision of 6 species of *flavus-bidentatus*
 group of Eunice (Eunicidae: Poly-
 chaeta), 13420

- Polyester resins, *see* Resins.
 Polyesters, *see* Esters.
 Polyethylene:
 films, molecular orientation and mechanical anisotropy, 14628
 irradiated memory materials, investigation of basic properties, 16123
 Polyethylene glycol, dip treatment of green oak lumber not effective in preventing surface checking, 12698
 Polyethylene terephthalate, films, molecular orientation and mechanical anisotropy, 14628
 Polyhedrons, particular class of penti-hexagonal polyhedra, 61396
 Polymers and polymerization:
 concrete-polymer materials, topical report, 7674
 conducting polymer materials, USSR study, 12921
 dependence of thermal stability of polymers on their chemical structure, USSR study, 5815
 friction and wear of 9 polymers with various fillers in liquid hydrogen, 6018
 grafting of organic polymers onto inorganic substances, 191
 polymer photodegradation, intrachain triplet transfer in Poly (1-Vinylnaphthalene) and Poly (1-Vinylnaphthalene-co-Methyl methacrylate), photophysical processes, 10258
 polymer solutions, light-scattering data from, analysis, 7305
 polymeric materials, Raman spectroscopy, 7387
 pyrrone polymers—
 development and processing, 10072
 electrical characteristics, 11416
 radiation-induced polymerization and copolymerization of unusual monomers, 13717
 ultrathin skin membranes-hema polymers, development, 8415
 see also Inorganic polymers.
 Polypropylene, films, molecular orientation and mechanical anisotropy, 14628
 Polyurethanes, *see* Urethanes.
 Polynomials, representation of carbon dioxide and water vapor transmission, 6920
 Polypeptides, *see* Peptides.
 Polyphenyl ethers, fatigue life of 120-MM bore ball bearings at 600° F with, 1079
 Polystyrene, boxes for shipping ice-packed poultry, cost and performance, 6383
 Polyvinyl chloride, *see* names of manufactured articles.
 Ponape Island, native polity, 2315
 Pond, Floyd W., grazing values on undisturbed chaparral versus areas converted to grass, Tonto Springs Range, 14264
 Ponderosa pine, *see* Pine.
 Pondfish:
 dealers, lists—
 Alabama, 11680
 Arizona, 11682
 Arkansas, 11681
 California, 11683
 Connecticut, 11684
 Florida and Louisiana, 10385
 Georgia, 10386
 Idaho, 10388
 Illinois, 10389
 Indiana, 10390
 Iowa, 10387
 Kentucky and Maryland, 10391
 Tennessee, 13449
 Virginia, 13450
 field trials of antimycin as selective toxicant in channel catfish ponds, 10393
 management for trout, 14869
 use of antimycin for selective thinning of sunfish populations in ponds, 10393
 Pontocyprididae, *see* Crustaceans.
 Pontoon:
 Federal item identification guides for supply cataloging, supplements, 2850
 Navy Lightered (N.L.) equipment, P-series, pontoon gear handbook, 13209
 Pool, Joe R., memorial services, 1676
 Poole, Joe, *see* Joe Poole Postal Station.
 Poor:
 bibliography, 6975
 emergency food and medical services, OEO, 6852
 program, guidelines, 9637
 employment programs for poor, community action program, manpower guidebook, 10962
 HRD employability model, guidelines, 4196
 nutrition and human needs—
 Florida, hearings, 10917
 national survey, hearings, 8087, 10917, 12316, 14058, 15478, 16895
 Nixon administration program recommendations, hearings, 12316
 problems and prospects, hearings, 5463
 South Carolina, hearings, 8087
 participation in community decision-making process, CAP mission guide, 15536
 poor people at work, 10363
 regional medical programs and their relationships to urban community and the poor, 2427
 selling job developments to the disadvantaged, 5887
 State minimum wage legislation to help all workers, especially working poor, 11784
 suburban programs for urban poor? (address), 17091
 Pope, W. C., safety aids decision-making, 5757
 Pope County, Ark., community profile, 15594
 Popkin, Joel, price changes in first quarter of 1969 in perspective, 12975
 Poplar, *Populus* species with emphasis on *P. tremuloides*, literature survey, 675
 Population:
 and family planning, 6165
 census, 1790-1890, price list of microfilm copies, of schedules, 6029, 7313
 census, 1960—
 final reports, 251
 supplementary reports, 5201
 census, 1970—
 first count summary tapes, results, 13772
 measure of America's progress, 9120
 New Florencia, sampling, case study, 5231
 second count summary tapes, results, 13771
 censuses, special, Jan. 1-Dec. 31, 1968, summary, 16666
 challenge, what it means to America, 5756
 countries and metropolitan areas, estimates, 12015
 countries, estimates, 5214
 crisis, hearings, index, 1739
 current population reports, 2735
 consumer buying indicators, series, 246, 5225, 9160, 13770
 consumer income, series, 5224, 6501-2, 10604-606, 13769, 15117, 16668
 Federal-State cooperative program for population estimates, 9159
 population characteristics, series, 239-240, 5212-13, 6500, 7740-42, 9154-55, 10603, 12010-13, 13763, 15114-115
 population estimates, series, 241-242, 3861, 5214-20, 7743-45, 9156-58, 12014-15, 13765-768, 15116
 special censuses series, 243-245, 5221-23, 7746-47, 16664-667
 special studies, 3860, 13764
 current research, 8684
 current survey reinterview program, 3863

- Population—Continued
 decennial census, 1970, questions, limit categories, agency reports, 9363
 estimates, 100 large metropolitan areas, 15116
 farm—
 1967 estimates, 12413
 1967, United States, 9153
 1968, United States, 12009
 series Census EKS, 9153, 12009
 Federal program in population research, report to Federal Council for Science and Technology, 16396
 increasing rate of growth, message from the President, 12151
 methods for measuring changes, systems analysis summary, 7431
 metropolitan and nonmetropolitan residence, 7741
 morbidity, statistical treatment, USSR study, 12884
 Negro—
 characteristics, 239
 selected areas of U.S. in which special censuses have been taken, 245
 New Florence—
 case study for 1970 censuses of population and housing—
 action-oriented census program—
 concepts, 6505
 initial decisions, 6504
 pretesting, 6506
 administrative requirements and mapping, administrative control system, 12018
 data-collection operations, organization and functions of field staff, 7750
 data processing, key punching, 7751
 North Carolina counties, estimates July 1, 1967 and 1968, 9159
 projections of population of metropolitan areas, 5217
 provisional estimates of 100 large metropolitan areas, 242
 Puerto Rico and outlying areas, 1967-68 estimates, 9157
 special censuses conducted by Census Bureau, summary, 5222, 16667
 standard metropolitan statistical areas of 250,000 or more, major concentrations of poverty, maps, 5522
 States, by age, estimates, 7744
 States, estimates, 3861, 13768
 States, households, estimates, 9158
 trends, hearings, 15309
 United States—
 estimates, 241, 5215-16, 5219, 7743, 7745, 9156, 12014, 13765, 13767
 estimates and components of change, 5220
 estimates by age, race, and sex, 5218
 advance report, 13766
 mobility, 12013
see also Rural population.
 Population Growth and American Future Commission:
 establish—
 hearing, 15455
 message from the President, 12151
 report, 15409
 Population Problems Office, Health, Education, and Welfare Dept., create, hearings, index, 1739
 Population Problems Office, State Dept., create, hearings, index, 1739
 Populations (mathematics):
 X^2 statistic and goodness fit test, 11500
 Populus, *see* Poplar.
 Populus tremuloides, *see* Aspen.
 Por, F. D., deep-sea Cerviniidae (Copepoda Harpacticoida) from western Indian Ocean collected with R/V Anton Brunn, 7376
 Porla welrii root rot, survival in conifer, alder, and mixed conifer-alder stands, 1915
 Pork:
 fresh, purchase specifications, institutional, approved by USDA, 9502
 in family meals, guide for consumers, 7592
 products, cured, smoked, etc., USDA institutional purchase specifications, 5469
 P'ORL, *see* Pacific Oceanographic Research Laboratory.
 Pornography, *see* Obscene matter.
 Porosity, of protective films on mild steel, 7386
 Porous materials:
 flow of mercury in porous media in transverse magnetic field, experiments, 10060
 nonsteady one dimensional compressible fluid flow through anisotropic porous media, 3745
 porous glass membranes for reverse osmosis, research, 2007
 tubular supports, in situ formation of regenerative cellulose acetate membranes, 17096
 Porous structures, previous coastal structures, water wave transmission and reflection by them, hydraulic laboratory investigation, 16968
 Porphyries, Nevada copper porphyry mill tailing, chemical and vegetative stabilization, 10062
 Port Arthur, Tex., area wage survey, 16014
 Portable clinical suction device for use in hyperbaric chambers, 16064
 Portable station for recording fire weather data, 17031
 Portela, Jose R., relief, 4020
 Porter, Bernard, phase diagram for KF-YF, system, 7216
 Porter, Paul R., address, May 22, 1969, 9983
 Porterfield, John D., evaluation of helicopter flight spectrum data, 1589
 Portland, Maine, area wage survey, 5904
 Portland, Oreg., area wage survey, 16015
 Porto Rico, *see* Puerto Rico.
 Portraits:
 nineteenth century gallery of distinguished Americans, exhibition catalogue, 6097
 presidential portraits, 17270
 wildlife portrait series, 14889
see also names, etc., of subjects sitting for portraits.
 Ports:
 civil defense, port preparedness, film, 12034
 partners in the future, ships and ports (remarks), 14488
 port series, 6906, 11002, 14152
see also Harbors—*also* names of ports or places where located.
 Portsmouth, Va., area wage survey, 2110
 Portugal:
 atomic energy cooperation for civil uses, agreement, 14918-919
 background notes, 4958
 capsule facts for Armed Forces, 5102
 economic trends and their implications for United States, 2029, 9989
 mineral industry, minerals yearbook chapter, 964
 Portuguese East Africa:
 Mozambique—
 area handbook, 7662
 background notes, 14894
 economic trends and their implications for United States, 12852
 gazetteer, official standard names, 14327
 mineral industry, minerals yearbook chapter, 5936
 Mozambique's agricultural economy in brief, 12414
 Portuguese Guinea, *see* Portuguese West Africa.
 Portuguese West Africa:
 Angola—
 background notes, 16459
 economic trends and their implications for United States, 2027

Portuguese West Africa—Continued

Angola—continued
mineral industry, minerals yearbook chapter, 5936

Guinea—
background notes, 10405
mineral industry, minerals, yearbook chapter, 5936

Posingies, Walter M., fabrication and functional test of flightworthy fluidic yaw damper, 1587

Position classification, *see* Classification—
Job analysis.

Positions, *see* Employment.

Positronium, properties and applications, USSR discussion, 11321

Positive plate of lead-acid cell, critical review of recent literature, 13287

Possessions of United States, *see* Outlying possessions.

Post, Robert E., effects of temperature and electrolyte concentration on performance of fuel cell of Bacon type, 8634

Post Oak Creek:
and tributaries—
flood plain information 12473
floods in Sherman, Tex., how to avoid damage, 12515

Post Office and Civil Service Committee, House:

activities, 90th Congress, summary, 3998

calendar, 3047

committee prints, 414, 3995-98, 9363-65, 10800, 13937-938

hearings, 411-413, 1708, 6726-27, 10797-799, 12239-243, 13935-936

investigations and studies—
authorization, reports, 6664, 13909

expenses, report, 7882

reports, 383, 5359, 6644, 6656, 7892, 7902, 7931, 10741, 13907, 15237, 15265, 15280, 16799

Post Office and Civil Service Committee, Senate:

calendar, 3064

committee print, 16897

hearings, 4095A, 4095B, 5464, 8088, 9487-89, 10918, 12317-318, 14059

Investigations and studies, authorization and continuation reports, 5399, 5417

reports, 445-446, 5399, 8029, 10849, 10878, 15359

Post Office Department:

Advisory Board, compensation, readjust-
hearings, 1708

annual report—

departmental edition, 4852

document edition, 3952

appropriations, 1970—

hearings, 9331, 10886

law, 16740

reports 9310, 9312, 10873, 15281

Assistant Postmaster General—

Facilities Bureau nominations—

Lehne, Henry, hearing, 8088

O'Marra, John L., hearing, 5464

Finance and Administration Bureau, nomination of James W. Hargrove, hearing, 5464

Operations Bureau, nomination of Frank J. Nunlist, hearing, 8088

Personnel Bureau, nomination of Kenneth A. Houseman, hearing, 5464

Planning, Marketing, and Systems Analysis Bureau, nomination of Ronald B. Lee, hearing, 8088

Research and Engineering Bureau, nomination of Harold F. Faught, hearing, 10918

cost ascertainment report, 10277

cost ascertainment system—

report, hearings, 10798

selected studies, 10800

criteria for use in planning new facilities, CR series, 7398

Post Office Department—Continued

deaf clerk-carriers in Post Office experiment, 5565

Deputy Postmaster General, nomination of Elmer T. Klassen, hearing, 5464

developing managers, 2392

efforts to collect international postal debts and to pay postal amounts owed in excess foreign currencies, GAO report, 12741

employees, nonpolitical appointments and promotion, report, 10878

facilities handbook series, 1306, 2394, 13318, 16327

General Counsel, nomination of David A. Nelson, hearing, 5464

licensed vendor listing, uniform allowance program, 11592

mail transportation laws, revision requested by Postmaster General, 3996

non-personnel offices, vehicle maintenance, facilities handbook, 1306, 2394, 16327

personnel handbook series, 2395, 11593

postal labor relations and employee morale, hearings, 12239

postal manual, 3261

postal rates structure survey, report, 7849

Postal Service Institute, announcement, 8773

postal system reform, 6579, 9258

posters, commemorative stamp, 1304, 2391, 2673, 4853, 6159, 7396-97, 8771, 10275-276, 11589-591, 14767-769, 16324-325, 17320-322

Postmaster General, nomination of Winston M. Blount, hearing, 4095B

press releases—

general, 3320

philatelic, 3320

public information service PI series, 13320, 14771

remove from President's Cabinet, and establish Government-owned postal system to be known as Postal Service, President's recommendations, 9365

reorganization, proposals, hearings, 10797, 13935

Research and Engineering Bureau engineering, architecture and related sciences, career opportunities, 2393

RPO employees in field service transferred to new duty positions, provide fringe benefits, hearing, 9489

scheme study, techniques, 11597

standardizing sizes of mail, hearings, 411 *see also* Postal service.

Post offices:

directory, with ZIP code numbers, 1305, 1309, 4856, 8775, 16326, 16330

Increase productivity through mechanization (address), 1303

Joe Poole Postal Station, Dallas, Tex., renaming ceremony (remarks), 1307

manual, 3261

occupations, employment outlook, 4586

orientation and craft skill training, handbook, 2395, 11593

postmaster positions, information, 16690

revenues and classes, 2396

Rosebud, Tex., dedication (remarks), 1308

self-service postal units, for those who like to play post office, 13320

see also Postal service.

Postage:

additional postage charges for certain nonstandard mail, etc., hearings, 411

4th class or library rates, mailing articles, delay or waiver of conditions, report, 383

postal rates structure survey, report, 7849

rate increases—
message from the President, 7857
recommendations, 9364

Postage stamps:

commemorative—
 Chief Joseph stamp dedication (address), 1300
 1.6-cent stamp envelope (poster).
 6-cent—
 Alabama statehood (poster), 11589
 American flag, coll form (poster), 8771
 American Legion (poster), 4853
 Apollo 8 (poster), 6159
 Apollo 8 dedication (address), 8770
 beautification of America (poster), 2391
 California bicentennial (poster), 10276
 Christmas (poster), 16324
 crippled children and adults (poster), 17320
 Dwight D. Eisenhower (poster), 16325
 Dwight D. Eisenhower dedication ceremonies (remarks), 16331
 football (poster), 14767
 Grandma Moses American folklore (poster), 7396
 Harnett American painting (poster), 17321
 International Botanical Congress (poster), 11590
 John Trumbull, American painting (address), 1302
 John Wesley Powell (poster), 11591
 professional baseball (poster), 14768
 W. C. Handy (poster), 7397
 10-cent moon landing (poster), 14769
 12-cent Henry Ford dedication (address), 7395
 13-cent—
 Human Rights Year (address), 2389
 Human Rights Year aerogramme (poster), 1304
 45-cent special delivery (poster) 17322
 posters, 2673
 philatelic releases, 3320
 use of illustrations and motion-picture films and slides, 14851
 Postal bulletin, *see* Postal service.
 Postal carriers, *see* Mail carriers.
 Postal clerks:
 deaf clerk-carriers in Post Office experiment 5565
 1 & C, Navy training course, 10244
 Postal employees, *see* Postal service.
 Postal Inspection Service, enforcement report, fraud, obscenity, extortion, monthly, 2798
 Postal Laboratory Mail Preparation Line, economic evaluation, 7398
 Postal life, magazine for postal employees 3260
 Postal rates, *see* Postage.
 Postal service:
 act of 1969, highlights, 9365
 Armed Forces—
 Europe, on site inspection, report, 6657
 mailing privileges, provide better overseas service, amend U.S. Code, report, 7892
 overseas, mailing privileges, provide additional free letter mail and air transportation mailing privileges, hearing, 6726
 postal systems, San Francisco critique, report, 15280
 code of Federal regulations, 11127
 cost ascertainment system of Post Office Department, selected studies, 10800
 developing managers, 2392
 efficiency and progress, 2390
 efforts to collect International postal debts and to pay postal amounts owed in excess foreign currencies, Post Office Dept., State Dept., GAO report, 12741
 elimination of political influence in appointment of postmasters, amend U.S. Code, hearing, 9488

Postal service—Continued employees—

checks and money-orders, acceptance of, hearing, 1708
 salary and retirement annuity increases, 3997, 13938
 establish as Government-owned postal system, President's recommendations 9365
 field, medical officers and nurses, exempt from provisions of United States Code, hearing, 1708
 hazardous articles, curtail mailing, hearing, 1708
 improvement, legislation, hearing, 1708
 investigation, authorization and continuation, report, 5399
 laws, 8772
 mail transportation laws, revision, 3996
 plans for changing structure of postal service, etc. (address), 4851
 postal bulletin, 3259
 postal labor relations and employee morale, hearings, 12239
 Postal Laboratory Mail Preparation Line, economic evaluation, 7398
 postal life, magazine for postal employees, 3260
 qualification standards for field service, 3351
 scheme study, techniques, 11597
 special services performance—
 cost ascertainment report, 10277
 cost ascertainment system, report, 10798
 State postal maps, 6160-62 7401-2, 8774, 10278-79, 11594-596, 16332, 17323-326
 used for unsolicited advertisement of hardcore pornographic or obscene material, hearings, 12227
see also International Postal Service—Mail carriers—Mail matter—Postmasters.
 Postal Service Institute, announcement, 8773
 Postal system reform, 6579
 Posters:
 Apollo program, NASA, 14566
 Armed Forces Information Service, Armed Forces insignia, 10538
 cigarette smoking may be hazardous to your health, 11608
 DoD-P series, 6427, 9026, 10538, 11927
 DSA poster series, 5515
 Food and Drug Administration, 11150-152
 sanitation guidelines—
 finished products, 11153
 food processing, 11152
 plant employees, 11150
 raw materials, 11151
 Forest Service, how a tree grows, 7002
 National Aeronautics and Space Administration, 5968
 National Park Service, 6087-92, 12788
 Post Office Department, commemorative stamps, 1304, 2391 2673, 4853, 6159, 7396-97, 8771, 10275-276, 11589-591, 14767-769, 16324-325, 17320-322
 United States Travel Service, 6331
 Postmaster General, *see* Post Office Department.
 Postmasters:
 appointments—
 elimination of political influence, amend U.S. Code, hearing, 9488
 on basis of merit and fitness, report, 10878
 examination announcements, 271-274, 9182-85
 positions information, 16690
 Posts:
 Appalachian woods for highway posts, evaluating, 15765
 poultry house, post and panel construction, farm building plan, 3652
 Posts (fences), *see* Fence posts.
 Potapovs, Uldis:
 effect of residual elements on 550° F irradiation response of pressure vessel steels and weldments, 6150

Potapovs, Uldis—Continued
 notch ductility properties of SM-1A reactor pressure vessel following in-place annealing operation, 1260

Potash:
 demand in U.S., statistical analysis, 14529
 fertilizer supply, 6365
 minerals yearbook chapter, 13022

Potassium:
 distribution in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
 liquid, solubilities of—
 molybdenum and tungsten 17248
 vanadium, titanium, and zirconium, 7270
 round robin analysis for oxygen in, evaluation of results, 4709, 11434
 solubility of refractory metals and alloys in, 11417

Potassium chloride, contained in properties of sea water and solutions, 2009

Potatoes:
 acreage, yield, etc., by States and seasonal groups, 13495
 controlling insects, 3636
 East Pakistan, industry, improving seed potato, multiplication and storage, 12842
 futures—
 commitments of traders, 2679
 trading and open contracts, 2930
 golden nematode, description, control, etc., 6396
 in popular ways (recipes), 5037
 Irish, utilization—
 1967 crop with comparisons, 1457
 1968 crop with comparisons, 6309, 14933
 Maine, 1968 potato acreage, yield, size and grade survey, 13494
 marketing orders—
 exempt canning, freezing, or other processing, hearing, 10764
 hearing, 10884
 report, 15396
 National Potato Utilization Conference, report, 8948
 research and promotion act—
 hearings, 7943, 9445
 reports, 10729, 15394
 spring, 1969 acreage marketing guides, 4102
 storage, 25,000 cwt. pallet box, farm building plan, 5053
 stored, for fresh market and processing usage, effects of gamma radiation and chemical treatment on quality, 5148
 summer and fall, acreage marketing guide, 8096
 total stocks, monthly report, 3501
 waste treatment, proceedings of symposium, 12660
 winter acreage marketing guides, 14063
 Potential Visit USA outlets abroad, 4996

Potentiostatic current-potential, measurements on iron and platinum electrodes in high-purity closed alkaline systems, 2353

Potomac National River, master plan, 13193

Potomac River and Valley:
 estuary at Washington, D.C., movement of solute at low inflow conditions, 14337
 land, people, and recreation in basin, final report, 5755
 Nation's river, pollution (remarks), 7091
 Project Potomac, water quality sub-task force report, 14244
 proposed national river, plan for preserving, 6093

Poultry:
 and meat, wholesome for you, 16541
 establishments, guidelines for implementation of sanitary requirements, 6814, 9501
 farm management, 6377

Poultry—Continued
 federally inspected plants, enforcement of sanitary, facility, and moisture requirements, Consumer and Marketing Service, GAO report, 14315
 foreign agriculture circulars, 2902
 hatchery production, 2953
 home canning, 6380
 house, post and panel construction, farm building plan, 3652
 ice-packed, polystyrene boxes for shipping, cost and performance, 6383
 inspectors' handbook, 511
 inventory, 6311
 labeled for you, 16542
 market statistics, 1968, annual summary, 6400
 national improvement plan—
 conference report, 13554
 hatcheries and dealers participating, 7567, 8945
 provisions, 7574
 Newcastle disease, how to control it, 42
 performance record and test summary, 7568
 plants operating under USDA inspection and grading programs, list, 509
 poultry and egg situation (periodical), 3262
 poultry house floor management, farm building plan, 5054
 processing plants, chemical compounds authorized for use under USDA inspection programs, list, 508, 10922
 publications, price list, 5788
 radiation pasteurization, 5151
 slaughtered under Federal inspection, monthly report, 3263
 treatment with ionizing radiations to destroy salmonellae, 7687, 7713
 USDA grades, how to buy, 6394
 USDA's acceptance service, 16545
 used in canning and processed foods, monthly report, 3263
see also Chickens—Turkeys.

Pouquet, Jean:
 approach to remote detection of earth resources in sub-arid lands, 2218
 preliminary study of detection of geomorphological features over northeast Africa by satellite radiation measurements in visible and infrared, 2219

Poverty:
 American Indians industrialize to combat poverty, 8559
 antipoverty programs, administration, message from the President, 6375
 business and OEO, partnership against poverty, 12402
 continuity and change in antipoverty programs, report of National Advisory Council on Economic Opportunity, 9532, 12146
 economic opportunity act of 1964, text as amended, 494
 economic opportunity programs, GAO review, 8086
 food gap, relationship with malnutrition in United States, 15477
 housing conditions in urban poverty areas, 1315
 manpower services concentrated against poverty, 7163
 metropolitan poverty areas, characteristics of families and persons living in, 10605
 persons and families, Mar. 1969, selected characteristics, 13763
 poverty, malnutrition, and Federal food assistance programs, statistical summary, 16896
 progressing against, 2457
 revision in 1959-68 statistics, 13764
 rural—
 Farmers Home Administration program reduces it, 13600
 Indian Americans, 15617

Poverty—Continued

- standard metropolitan statistical areas of 250,000 or more population, maps of major concentrations, 5522
- urban, facts relating to its dimension, 14472
- war on poverty—
 - communities in action (periodical), 2683
 - conference proceedings, 561
 - examination, staff and consultants reports, 4092, 10914
- Legal Services program, monthly account, 3032
- news summary, 3201
- religion, 8146
- rural opportunities (periodical), 3403
- women, involvement, 8147
- Washington inner city poverty survey, 1743
- working with the disadvantaged, 55
- solid-propellant combustion instability and role of velocity coupling, 14639
- study of helium penetration and spreading in Mach 2 airstream using delta wing injector, 11494

Powders:

- mixed, cermet of uranium nitride and tungsten or molybdenum, fabrication, 7294
- thermal conduction through evacuated idealized powder over temperature range of 100°–500°K, 7260
- two nickel-base alloys, alloy 713C and NASA TAZ-8A, produced by extrusion of prealloyed powders, evaluation, 10150
- ultrafine—
 - comminuted powders, used for producing dispersion-strengthened nickel, 16172
 - role of chemical reactions in mechanism of comminution of ductile metals by grinding, 1087

Powell, J. Anthony, growth of 2H silicon carbide crystals, 13105

Powell, John W.:

- and anthropology of canyon country, 11248
- Colorado River region and John Wesley Powell, collection of papers, 9904
- 6-cent commemorative postage stamp (poster), 11591
- soldier, explorer, scientist, biographical sketch, 14342

Power, Dean V., intermediate range ground motions for Pre-Gondola II and associated events, 1603

Power, Joseph K., investigation of sonic boom simulator, techniques and measurement devices, 12595

Power, Richard F., relief, 6742

Power:

- Brayton-cycle space power application, 1-megawatt reactor design—
 - neutronics design, 4740
 - thermal analysis and core design, 4739
- conservation, code of Federal regulations, 9802
- fluid power systems equipment, shipments and end use, 16639
- high power, low frequency operation and pure hydrogen heating, induction plasma heating, 10083
- hydro-thermal power, 10-year program for Pacific Northwest, 6483
- Idaho-Utah power interruption Dec. 22, 1967, report, 12619
- implantable power source for circulatory support devices, study, 9075
- international transient control for solid state power supplies, military standards, 547
- interruption, Pennsylvania-New Jersey-Maryland interconnection, report, 649
- loss in herringbone-grooved, gas-lubricated journal bearings, experiments, 10139
- motive, for class 1 railroads, 3149

Power—Continued

- power and cross-spectra and space-time correlations of surface fluctuating pressures at Mach numbers between 1.6 and 2.5, 16185
- power aspects of Tocks Island dam, Delaware River basin, hearings, 6801
- power gains for antennas over lossy plane ground, 9723
- source, seawater battery with converter-regulator as power source for AN/SSQ-sonobuoy, 2358
- super high-frequency power in magnetic field steady-state condition, determination of plasma parameters produced, 15064
- transmission facilities, improved appearance, 14835
- 1200 Hertz Brayton-cycle space-power system, using 14.3-kilovolt-ampere modified Lundell alternator, performance, characteristics, 14643
- see also Atomic energy—Electricity—Force and energy.

Power boilers, see Boilers.

Power County, Idaho, records of observation wells and water-level fluctuations in Aberdeen-Springfield area, 8357, 14355

Power generators, comparison with Brayton cycle magnetogasdynamic space-power generation systems, 6022

Power lines, see Electric lines.

Power O. and M. bulletin series, 13398–13400

Power plants:

- acoustics, Army technical manual, 3777, 7666
- coal fired, emissions from, comprehensive summary, 17336
- Grand Coulee Dam, 3d powerplant—colossal generating units, 14828
- general information, 13404
- power features, Eklutna Project, Alaska, field review of maintenance, 13400
- see also Electric power plants—Steam power plants.

Power reactors, see Reactors (atomic).

Power resources:

- supply and demand, in United States by States and regions, 1960 and 1965, data—
 - coal, 5931
 - dry natural gas, 5933
 - petroleum and natural gas liquids, 10051
 - utility electricity, 5932

Power sources for electric cars, 1571

Power tools:

- portable, safety in industry, instructor outline, 5890
- power hand saw, construction industry safe work guide, 17148

Power transmission, equipment, mechanical, Federal item identification guides for supply cataloging, supplements, 2842

Power truck operators, employment outlook, 4506

Power Use Conference, Portland, Oreg., proceedings, 10585

Powerplants, see Power plants.

Powers, John O.:

- effects of aircraft operation on sonic booms, 12581
- sonic boom theory, 12598
- survey of sonic boom experiments, 12600

Powers, Robert S., radio-frequency measurements in NBS Institute for Basic Standards, 13159

Powers, William F., on generation of ideal coordinate systems for analysis of optimal trajectories, 1037

Powley, Van R., soil survey of Salem County, N.J., 11678

Pozzolan cement, see Cement.

Practitioners, working with older people, practice guide, 13383

- Prague, Czechoslovakia, wintry days in Prague and Moscow, study mission, report, 5446
- Prairie chicken, *see* Grouse.
- Prairie County, Ark., community profile, 15595
- Prasky, Charles, reduction roasting of Steep Rock iron-bearing materials, 5962
- Prayers:
 - offered by Senate Chaplain, 89th and 90th Congresses, 15351
 - print as Senate document, report, 8022
 - public schools, proposed constitutional amendment hearings, print additional copies, report, 7915
- Preamble County, Ohio, soil survey report, 13446
- Pre-Cambrian period, elastic and pelitic rocks, southwestern Colorado and northern New Mexico, gold investigation, 14332
- Precious stones, gem stones, minerals year-book chapter, 16076
- Precipitation:
 - hardening of steels and superalloys, effect of ultrasonic vibration, 7292, 13071
 - harmonic analysis, 1566
 - heavy late-fall precipitation, effect on runoff from chaparral watershed, 9852
 - hourly data, by States, etc., 2962
 - Long Island, N.Y., regime, 15806
 - Minnesota River, probable maximum estimates, 6349
 - Pacific Northwest, monthly, 3236
 - relation to flow from Little Leroux Spring on San Francisco Peaks, Ariz., 9849
 - South Platte River, probable maximum estimates, 6349
 - Tennessee River basin—
 - monthly, 3264
 - probable maximum and TVA precipitation, 17438
- see also* Hall—Rain.
- Precipitators, *see* Electrostatic precipitators.
- Precision Instruments, USSR industrial development, translations, 3558
- Precision measurements, *see* Physical measurements.
- Predators, predatory behavior of shore fishes in Gulf of California, 2479
- Prediction (psychology):
 - comparing prediction of job performance ratings, from trait ratings for aircraft mechanics and administrative airmen, 11888
 - naval flight officer student prediction system, expansion, 14498
 - predicting human performance in space environments, 13041
- Prefabricated buildings, *see* Buildings.
- Pregitzer, Karl E., soil survey, Muskegon County, Mich., 6245
- Pregnancy:
 - eat well for you and your baby who is on the way, 16671
 - impact injury to pregnant female and fetus in lap belt restraint, 10580
 - planning your pregnancy, 15616
 - school continues for pregnant teenagers, 4185
 - smoking and pregnancy, fact sheet, 11614
 - your smoking affects two lives, ask your doctor, 13384
- Pre-Gondola Project, *see* Project Pre-Gondola (field cratering experiment)—Project Pre-Gondola II (Plovershare program).
- Pretswerk, Peter R., axisymmetric and cylindrical isotabiloids, 17206
- Prejudices, we hold these truths, bibliography, 13515
- Prelude to school, evaluation of inner-city preschool program, 13778
- Premise and home environmental health survey, Papago Indian Reservation, 13361
- Prepare yourself for postal examination, mail handler, distribution clerk, mail carrier, 6524
- Preparedness, *see* Civilian defense.—National defense.
- Preprimary enrollment of children under 6, etc., 4181
- Preprocessing electronic satellite observations, 1011
- Preschool centers supplementary education act, hearings, 396
- Preschool children, *see* Children.
- Pre-Schooner Project, *see* Project Pre-Schooner (field cratering experiment)—Project Pre-Schooner II (Plovershare program).
- Prescription Drugs, Task Force on, *see* Task Force on Prescription Drugs.
- Prescriptions:
 - drugs—
 - coverage under title 18, social security act, findings of Health, Education, and Welfare Dept., 3966
 - medical insurance sample, current medicare survey reports, 10367, 11666
 - Rx label, basis for all prescribing information, 5661
 - Task Force on Prescription Drugs, background papers—
 - current American and foreign programs, 1981
 - drug prescribers, 1982
- Present and future of U.S. nuclear supply industry (remarks), 5189
- Preservation of food, *see* Food.
- Preservation of incentive system (address), 13317
- Preservation of materials:
 - preservation and packaging, instructor's guide, Army Dept. pamphlet, 10550
 - wheeled vehicles and equipment, military standard, 8138
- Preservatives, preservative-lubricant for small arms, 1265
- see also* Wood preservatives.
- President of United States:
 - addresses—
 - Jan. 30, 1968, 1442
 - Nov. 1, 1968, 1440
 - Apr. 10, 1969, 8883
 - May 14, 1969, 10410
 - June 4, 1969, 11706
 - Sept. 18, 1969, 16468
 - Atlantic consultation, President Nixon in Europe, 7482
 - code of Federal regulations, 5619–20, 12629
 - counter-inaugural protest activities in Washington, D.C., response to, 13325
 - economic report—
 - departmental edition, 4858
 - document edition, 3962
 - hearings, 3938, 6565, 7833
 - report, 6700
 - election—
 - amend Constitution relating to electoral college reform, hearings, 6722, 13940, 14043
 - by direct popular vote, amend U.S. Constitution, proposal, reports, 15227, 15229
 - electoral college system reform, 6577
 - foreign relations report (text of press conference), 7485
 - inaugural addresses from President George Washington to President Richard M. Nixon, print as House document, report, 10755
 - inauguration in 1969, address, 5388, 6273
 - memorial services and eulogies for Dwight D. Eisenhower, print as House document, reports, 15286, 16858
 - messages, *see* in main alphabet, subject of message.
 - papers—
 - index series, 12990
 - Johnson, Lyndon B., 1883–84
 - Polk, James K., 12990
 - portrait of Richard M. Nixon, 11927

President of United States-- Continued
 presidential documents, weekly compilation, 3594
 presidential portraits, 17270
 press releases, 3321
 principal legislative proposals, report, 7848
 proposals to combat hunger and malnutrition, hearings, 12316
 public speeches of former President Dwight D. Eisenhower, print as House document, report, 10756
 salary, increase, law, 6561
 state of the Union message, 3951
 statement, Mar. 14, 1969, 7486
 tributes to Lyndon Baines Johnson in Congress of United States, 5390
 vetoes, 1789-1968, list, 12245
 two weeks in summer of 1969, etc., 17405
 Presidential appointees, see Government officials and employees.
 Presidential scholars, see Scholars.
 Presidents' Commission for Observance of Human Rights Year:
 establishing, remarks of President Johnson, 1442
 final report, 8782
 national conference, continuing action for human rights, 11701
 to deepen our commitment, interim report, 1321
 President's Commission on Crime and Regional Aspects of Crime Problem, recommendations, implement, hearings, 6781
 President's Commission on Crime in District of Columbia, law enforcement in National Capital, suggestions for implementing, committee print, 6780
 President's Committee on Consumer Interests:
 appropriations, 1970--
 hearings, 9330
 report, 12197
 President's Committee on Employment of the Handicapped:
 Advisory Council meeting, 8779
 annual meeting, minutes, 1313
 membership directory of committees, 16333
 performance, story of the handicapped (periodical), 3247
 press releases, 3322
 special report, fresh views on employment of mentally handicapped (periodical), 3452
 President's Committee on Mental Retardation:
 mentally retarded in model cities, workshop report, 8777
 PCMR message, 3242
 toward progress, story of decade, report, 17327
 President's Committee on Population and Family Planning, report, 6165
 President's Committee on Urban Housing:
 report on decent home, 2397
 technical studies, report, 8780
 President's Council on Recreation and Natural Beauty, general information, 10287
 President's Council on Youth Opportunity:
 appropriations, authorize, report, 15232
 a day in the life, 1310
 developing youth opportunity programs, 7403
 for guys and gals who are looking for summer jobs, 11598
 summer '68 activities, 7407
 youth coordinators, manual, 7404
 President's General Advisory Committee on Foreign Assistance Programs, report, 7121
 President's Panel on Oil Spills:
 reports--
 offshore mineral resources, 17366
 oil spill problem, 17367

President's Task Force on Communications Policy, final report, 10288
 President's Temporary Commission on Pennsylvania Avenue, report, 13323
 President's Water Pollution Control Advisory board, 6989
 Presque Isle Peninsula, effect of particle size and distribution on stability of artificially filled beach, 15647
 Press operators, job grading standard, civil service, 7780
 Press releases, see names of offices issuing releases.
 Presses, see Press operators.
 Pressure:
 adaptation of dogs to 60 and 90 mm. Hg CO₂ at total pressure of 260 mm. Hg, 3695
 analysis of molecular beam system utilizing known pressure, source, 13102
 annealed, pyrolytic graphite, magneto-thermal oscillations, 17236
 bubbles and bubble pressures in Antarctic glacier ice, 1575
 characteristic pressure distribution in outlet works inlets, 15666
 commercial unbonded strain-gage-type absolute pressure transducer at 260° C performance of 2 models, 11497
 compressibility data for helium at 0° C and pressure to 800 atmospheres, 14551
 distributions--
 and nonlinear lift of slender conical bodies with strakes at low speeds, 1021
 and shock shapes for large-angle pointed cones in helium at Mach number of 8 and 20, 1312
 development of 3-dimensional pressure distribution functions for lifting surfaces with trailing-edge controls based on integral equation for subsonic flow, 17220
 due to sinusoidal distortions on flat plate at Mach 20 in helium, 1123
 large semispan tilting wing, etc., 17231
 on 140°, 160°, 180° cones at Mach numbers from 2.30 to 4.63 and angles of attack from 0° to 20°, 10127
 spherically blunted 25° half-angle cone at Mach 8 and angles of attack up to 90°, 1056
 effects on--
 cavitation damage to cobalt base alloy in sodium, 11478
 friction coefficients of thin-film solid lubricants, 1266
 experimental distributions--
 for family of blunt bodies at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15°, 14637
 on 120° cone at Mach numbers from 2.96 to 4.63 and angles of attack from 0° to 20°, 7257
 experimental study of breaking-wave pressures, 1825
 external, sandwich and ring-stiffened 120-degree conical shells subjected to structural optimization, 14589
 gas pressure in uranium dioxide ceramic fuel elements, estimation of fission product, 2223
 gaseous-hydrogen pressurant requirements for discharge of liquid hydrogen from 3.96-meter-(13-ft)- diameter spherical tank, 14632
 gradients of compressible turbulent boundary layers, calculation, 7237
 heat transfer and pressure distribution inside hinge-line gap of wedge-flap combination, 1126
 high pressure piezoelectric ceramic transducer, USRD type F43, 7389
 high, reaction of coal with steam, 2176

Pressure—Continued

- horizontal gradients, limb radiance calculation approach for model atmospheres, 17242
- increased ambient, performance effects, helium-oxygen saturation and excursion dive to simulated depth of 900 feet, 8576
- intra-ocular, observations of changes during PBM patrol as measured by Schlotz tonometry, 11372
- lateral, general instability of eccentrically stiffened cylindrical shells, 4687
- measurement by use of small combination sensing probe, 1062
- pressure perturbations induced in rocket combustor by machine gun, characterization, 8652
- pressures and heat transfer on 75° swept delta wing with trailing edge flap at Mach 6 and angles of attack to 90°, 16171
- pressurized startup, analytical method for predicting performance of centrifugal pumps, 2261
- prolonged reduced, effects on growth and nitrogen content of turnip, 3705
- real-helium hypersonic flow parameters for pressures to 3600 atmospheres and temperatures to 15000° K, 1092
- shock pressures, by waves breaking against coastal structure, 1826
- shock wave pressure decay in polycarbonate targets impacted by cylindrical polycarbonate projectiles, 2228
- stability analysis for unloaded externally pressurized gas-lubrication bearings with journal rotation, 1140
- surface fluctuating at Mach numbers between 1.6 and 2.5, power- and cross-spectra and space-time correlations, 16185
- surface pressures on blunt bodies of revolution at small angles of attack in supersonic flow, method for determining, 2229
- superconducting lead pressure contacts, 1263
- supersonic flow field about axisymmetric body with N wave pressure trace, estimate, 1141
- thermal electromotive force change for STPt 13Rh/Pt thermocouples in 1530K, 10–8 torr environment for 3700 hours, 11485
- total-pressure loss and airflow distribution for annular gas turbine combustors, analysis, 14631
- use of thermodynamic properties of metal-gas systems as reduced-pressure standards, 4683
- vacuum, dogs exposed to, intraocular dynamics, 1549
- water and aqueous solutions at high pressures and temperatures, properties, 806
- Pressure suits:
 - Langley cardiovascular conditioning suit concept, evaluation, 2189
 - man's capacity for self-locomotion on the moon, detailed report, 16128
 - rapid (explosive decompression emergencies in pressure-suited subjects, 2199
 - relationship between optical distortion and binocular depth perceptions, 10113
- Pressure transducers, *see* Transducers.
- Pressure vessels:
 - A533 steel, with neutron irradiation, initial assessments of notch ductility behavior, 6145
 - controlled destructive testing, 13286
 - dynamic tear test definition of temperature transition from linear elastic to gross strain fracture conditions, 6147
 - graphite filament-wound, at ambient and cryogenic temperatures, tensile and cyclic fatigue properties, 13129
 - hydrogen gas pressure vessel problems in M-1 facilities, 5986

Pressure vessels—Continued

- PM-2A reactor, notch ductility and tensile property evaluation, 6140
- SM-1A reactor, notch ductility properties following in-place annealing operation, 1260
- steels and weldments, effect of residual elements on 550° F irradiation response, 6150
- steels, tensile properties, nuclear reactor, 2350
- Pressurization:
 - externally pressurized air journal bearings, rotating, experiments, 10123
 - helium pressurization systems for liquid-methane fuel in supersonic transports, 17252
 - rotating externally pressurized air journal bearings, experiments, 11452*see also* Tanks (containers).
- Prestraining, *see* Strains and stresses.
- Preuss, Luther E., diffractometry with 55Fe and Beta excited X-ray sources, final report, 7678
- Prevention of accidents, *see* Accidents.
- Price, Bronson, library statistics of colleges and universities, data for individual institutions, 14138
- Price, Daniel N., income-loss protection against illness, 2459
- Price, Howard L., molecular orientation and mechanical anisotropy in polyethylene, polypropylene, and poly(ethylene terephthalate) films, 14628
- Price lists, *see* Government publications—*also* names of departments, etc., issuing lists—*also* subjects.
- Price supports, *see* Prices.
- Prices:
 - agricultural prices (periodical), 2564
 - Cabinet Committee on Price Stability, staff studies, 4863
 - changes in first quarter of 1969 in perspective, 12975
 - consumer price index—
 - city average and selected items, 2700
 - selected items and groups, 2701
 - contract pricing, Armed services procurement regulation manual, 5476
 - crop values, season average prices, value of production, 7528
 - dairy price support, 1949–68, and related programs, 10968
 - demand and price situation, 2758
 - eggs, pricing systems, 8972
 - food, and living costs, background material, 14471
 - food costs, farm prices, compilation of information relating to agriculture, 9328
 - index numbers hydraulic turbine industry, 2974
 - lumber pricing and production problems, 8055
 - medical care, fact sheet, 10368
 - medical care price changes, medicare's first 3 years, 16416
 - Northwest forest industries, 3337
 - price supports, 1500
 - CCC program data, 2648
 - statutes, compilation, 1502
 - pricing in a services business, management development program, instructor's manual, 6224
 - pricing policy in Contract Administration Services, DoD Contract Management Conference, 1783
 - rate of increase will decline during 1970 (address), 16701
 - rice price support and marketing incentive program for Liberia, 16557
 - spot market price index and prices, weekly summary, 2740
 - statistics training program for statisticians and economists of other countries, 5557

Prices—Continued
 wholesale price index—
 advance summary, 10034
 numbers, 2968
 prices and price indexes, monthly, 3604
see also Inflation (finance)—*also* names of commodities.

Pricing policy, *see* Prices.

Pride, Richard A. Influence of various fabrication methods on compressive strength of titanium skin-stringer panels, 14634

Priest, Joseph R., study of (a,t) reaction on scandium-45 at 41 MeV, 10134

Priest Lake, Kanikou National Forest, recreational area, 14268

Primas, James E.:
 records of Department of State relating to internal affairs of—
 Argentina, pamphlet, 1161
 Austria-Hungary and Austria, pamphlet, 1164
 records of Dept. of State relating to political relations between U.S. and Austria-Hungary and Austria, and other states, pamphlet accompanying microcopy, 10169

Primates:
 acute somatic effects of protons to 400 MeV, 82
 Macaca mulatta, beta-aminosubutyric acid excretion in, 10528
 preliminary test with air bag and inertia reel/inverted-Y yoke torso harness, experimental impact protection with advanced restraint systems, 16636
 radioprotection, with 2-(1-decylamino) ethanethiosulfuric acid in dimethyl sulfoxide, 13628
 radiosensitivity, stress response as predictor, 6419
 research with primate equilibrium platform in radiation environment, 1545
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrates as radioprotectant in, 3716

Prime Project, *see* Resource management system.

Primitive areas, *see* Wilderness areas.

Prince Georges County, Md., District Court, suitable site for holding court, authorize, report, 16850

Prince William Forest Park, general information, 2321

Prince William Sound:
 earthquake of 1964 and aftershocks—
 research studies and interpretative results, geodesy and photogrammetry, 6528
 research studies, seismology and marine geology, 10634

Principal officials in executive branch, 5637, 6972, 8235, 9821

Principles and applications of underwater sound, 6153

Printed matter, trade and tariff information summaries, 14939

The printed word, 564

Printers:
 examination announcement, 5265
 journeymen in printing crafts, examination announcement, 6522

Printing:
 crafts, journeymen, examination announcement, 6522
 high-speed digital plotter-printer for producing hard copy alphanumeric listing and digital data plots, 16201
 industry report, 3334
 occupations, employment outlook, 4536
 paper manufacturing & printing, industry trend, 6484
 printed matter—
 savings in shipments from Japan to points in Pacific, GAO report, 11225
 trade and tariff information, summaries, 1460

Printing—Continued
 printing positions, examination announcement, 5265
 three different techniques of color separation applied to charting and printing, 13243
see also Public printing and binding—Type.

Printing Joint Committee, committee print, 6733

Printing machinery, 1964-1968 trends, 11977

Prints:
 and pictorial illustrations, catalog of copyright entries, 4114-15, 14068, 16904
 color prints of our Navy in action, 10240
 commercial catalog of copyright entries, 518, 5472, 15488
 national exhibition, catalog, 8566
see also Lithographs.

Priroda (periodical):
 selections, 857

Prisoners of war:
 captured during Vietnam conflict, payment of compensation, amend war claims act, hearing, 5378
 Vietnam conflict, payment of claims, amend war claims act, reports, 9299, 9321

Prisons and prisoners:
 Air Force correction facilities, operation by security police, 3684
 Atlantian (periodical), 2614
 correctional planning and resource guide, 8528
 eagle (periodical), 2775
 national prisoner statistics series, 1322
 new era (periodical), 3186
 prisoners in State and Federal institutions for adult felons, 1322
 Stalin-type prison camps still exist in USSR, 5813

Prison Bureau, basic data book, 4864, 14775

Privacy:
 credit bureaus and reporting, safeguards to protect citizens from improper disclosure of personal data, establish, hearings, 12307
 Government employees, protect, hearings, 412
 invasions of privacy by Retail Credit Co. of Atlanta, Ga., hearing, 10789
 private programs for minority business enterprise, directory, 13804
 Private enterprise, *see* Business.

Private Law, International Institute for Unification, *see* International Institute for Unification of Private Law.

Private laws, *see* Law.

Private Resources Office, 1968 operations, working with private enterprise, 12863

Privoznik, Edward J., T63 regenerative engine program (extended endurance and environmental testing), 5131

Prizes, *see* Rewards (prizes, etc.).

PRL, *see* Personnel Research Laboratory.

Probabilities (mathematics):
 absorption rate sticking probabilities for oxygen on columbium and dilute columbium-zirconium alloys, 1105, 4703
 Arrhenius reliability extrapolation techniques, computerized, 1119
 atomic transition probabilities, sodium through calcium, 17263
 Ba I and II transition probabilities critically evaluated, 4769
 birch regeneration, stochastic model, 678
 log-a-posteriori probability metric for use in sequential decoding, 8609
 multistage, model of sample reduction in mineral industries, 973
 prediction of thermodynamic effects of developed cavitation based on liquid-hydrogen and freon-114 data in scaled venturis, 1116
 predictive display systems, fundamental study, 4684

INDEX 1969

- Probabilities (mathematics)—Continued**
 probability density functions of n vectors added with random directions, 16316
 second-order errors in linearized velocity corrections and their effects on rate of convergence of iterative solutions, 6003
 theory of branching systems, USSR study, 12950
Probable maximum precipitation over South Platte River, etc., 6349
Probation:
 Federal probation (periodical), 2867
 pilot study of correctional training and manpower, 4928
 volunteer programs—
 in courts, collected papers on productive programs, 17379
 using volunteers in court settings, manual, 4931
Probes:
 biomedical applications of commercial capacitance transducer, 5193
 ejected, or natural satellite, method of deriving orbital perturbing parameters from onboard optical measurements, 14584
 gamma probe calibration tests, 14833
 interplanetary missions with solar-electric propulsion systems, 13097
 neutron, interpreting readings in frozen soil, 17022
 sensing probe, small combination, for measurement of temperature, pressure, and flow direction, 1062
 spore content of air, determination with stationary probes, USSR study, 12890
see also Electric probes.
Problem solving:
 COMPUTE, time-sharing desk calculator program, 1130
 physics of high energies and cosmic rays, 10160
Problems in philosophy (USSR periodical): translations, 862
Problems in virology (USSR periodical): translations, 848
Problems of environmental health (address), 11627
Problems of philosophy (USSR periodical): translations, 15926
Procedures, *see* Administrative management.
Proceedings of National Museum, 2314, 4797 title page and contents, 4797
Processing of food, *see* names of foods processed.
Processing personnel actions, 2855
Proctor, T. G., family of solutions of certain nonautonomous differential equations by series of exponential functions, 4689
Proctor Creek:
 flood plain information, 9685
 floods in metropolitan Atlanta, Ga., how to avoid damage, 12535
Procurement. *See* Air Force—Armed Forces—Army—Defense Department—Defense Supply Agency—Government contracts—Government supplies—Military supplies—Navy—Transportation—*also* names of commodities procured—*also* names of departments, etc., engaged in procurement.
Produce, *see* Agricultural products.
Product Safety Commission, *see* National Commission on Product Safety.
Production:
 capabilities of some Upper Rio Puerco soils of New Mexico, 682
 distribution problems, USSR study, 7144
 farm production and efficiency changes, summary report, 10497
 food, and processing in USSR, 4448
 foreign products available for production in U.S. under licensee agreements, 14424
 herbage production differs with soil in phryon-juniper type of Arizona, 9851
Production—Continued
 indexes, 1963 census of manufacturers, change sheet, 220
 industrial mobilization production planning manual, 6837
 industrial, new incentives increase output, USSR study, 5829
 national defense, report, 3982
 Northwest forest industries, 3337
 output, indexes per man-hour—
 radio and television receiving sets industry, 889
 selected industries, 5899
 procurement and production, manufacturing methods and technology, 5-year program, 173
 productivity of diverted cropland, 8155
 research reports, 3668, 7613, 8989-90, 13604-605, 15005-6
 research under marketing agreement and order programs authorize, hearings, 13915
 science in industry and production, USSR study, 12885
 standards, mine products through use of operations research techniques, 5956
 surveillance and reporting, Contract Administration Services, DoD Contract Management Conference, 1779
 see also names or classes of commodities.
Production credit associations:
 Government capital, expedite retirement, hearing, 386
 operations, 1968, summary, 8192
Production equipment:
 industrial plant handbook, portable machine tools and toolroom layout, plates and tables, 8113
 new durable productive equipment revocation, 2440
Production painters, *see* Painters.
Productivity, *see* Production.
Products, *see* Commercial products—*also* names of products.
Professional challenge and growth for accounting majors in Federal Highway Administration, 15703
Professional education, national program of educational laboratories, 15637
Professional equipment, temporary importation, customs convention, 7512
Professional papers, Geological Survey, 745-752, 1964-70, 4361-67, 5713-23, 7050-57, 8351-54, 9902-4, 11243-248, 12779-786, 14345-353, 15802-807
Professional Photography Week:
 designate—
 law, 10685
 report, 8039
Professional workers:
 aliens, in-migration into United States, annual indicator, 15845
 annotated bibliography on inservice training—
 allied professionals and nonprofessionals in community mental health, 8793
 key professionals in community mental health, 8794
 earnings data pertinent to review of salary tests, 10451
 international migration of talent and skills, hearings, 487
 pay—
 national survey, 4597
 New York State, 11355
 senior level positions, examination announcement, 5252
 State agricultural experiment stations and other cooperating State institutions, list, 6371
 women in professional and technical positions, fact sheet, 5006
Professions:
 Allied health professions training act of 1966, amended, reports, 8683, 13167

Professions- Continued
 allied health program, traineeship grants
 for advanced training, 2308
 education profession, literature, bibliog-
 raphy, 10977
 education professions development act of
 1967—
 educational personnel development pro-
 grams, 1969-70, handbook for direct-
 ors, 1810
 programs for 1969-70 institutes, sum-
 mer, part-time academic year fellow-
 ships, 4167
 education professions development, invest-
 ment in future, 8166
 health, education improvement grants,
 4883
 publications, price list, 2404
 Proficiency examinations, see Examinations.
 Profiles, careers in U.S. Department of Agri-
 culture, 45
 Profiles in quality education, 585
 Profit:
 large corporations, quarterly report, 3409
 why TSI? timber stand improvement in-
 creases profits, 10494
 Profit sharing:
 income tax laws, and regulations, 809
 plan or trust, requirements, code of Fed-
 eral regulations, 11778
 Prognostication, problems of general and
 social prognosis, USSR study, 12941
 Program aid series, 51-55, 1515-16, 3663-
 66, 5058-61, 6394-98, 7606-12, 8976-88,
 10492-495, 11876-884, 13597-602, 14999-
 15003, 16352-554
 Program analysis series, 4377-79
 El program de pago suplementario de al-
 quiler, 5744
 Program evaluation and review technique,
 PERT for CAA planning, programmed
 course of instruction, 4152-53
 Program planning and development, self-
 teaching materials, 10620
 Programmed instruction:
 catalog of instructional material, Navy
 supplements, 1253, 8759
 elementary program in compensatory edu-
 cation—
 intensive reading instructional teams,
 Hartford, Conn., 6870
 tutorial reading project, Indianapolis,
 Ind., 6872
 instructional systems and technology, in-
 roduction to field and use in Federal
 training, 12056
 photography, Naval training course, 8758
 programmed course of instruction in
 PERT, 4152-53
 programmed learning, Air Force manual,
 19000
 Programmers, electronic computer, employ-
 ment outlook, 4504
 Programming (computers), see Computer
 programs/programming.
 Programming (planning):
 air pollution, sulfur oxides control, Fed-
 eral research and development, plan-
 ning and programming, 2410
 Army, comptroller, role, in programing,
 budgeting, and accounting and report-
 ing (PBAR) system, 6433
 Federal programs assisting children and
 youth, 9170
 offsite safety programs for underground
 nuclear detonations, technical discus-
 sions, 13609
 phased project planning guidelines, 1154
 planning-programming-budgeting system—
 analysis and evaluation of public ex-
 penditures, 10688
 print additional copies, reports,
 10754, 12279
 defense analysis, examples, 15458
 glossary, 8326

Programming (planning) Continued
 planning-programming-budgeting system—
 continued
 in foreign affairs, reflections, memoran-
 dum, 473
 innovations in State and local govern-
 ments, 13848
 interim observations, study, 472
 resolving policy analysis from PPBS,
 8072
 survey of progress in implementing
 in executive agencies, GAO report,
 12751
 program analysis techniques, bibliography,
 supplement, 9091
 program information, cancer chemother-
 apy reports, 7341
 specialists and generalists, selection of
 readings, 476
 system engineering management, 16927
 Programs for the handicapped (periodical),
 3338
 Progress in sport fishery research, 14885
 Progress report, regional medical programs
 for heart disease, etc., 4891
 Project Apollo (man-in-space program):
 Apollo—
 First manned lunar landing color prints,
 14593
 "In the beginning . . .", color prints,
 13056
 Man on the moon, color print, 14594
 Apollo 8—
 man around the moon, 4692
 6-cent commemorative postage stamp
 (posters), 6159
 6-cent commemorative postage stamp,
 dedication (address), 8770
 solar x-ray emission during flight, 13304
 Apollo 9, code-name, Spider, flight, 8605
 Apollo 10, mission report, 10095
 Apollo 11—
 log, 13053
 mission report, 16119
 astronaut backpack antenna, performance
 characteristics, 8615
 command module with offset center-of-
 gravity positions at Mach numbers 10
 to 29, trim attitude, lift, and drag, 11480
 control of materials, procedures and prac-
 tices, GAO review, 722
 entry aerodynamics as lunar return condi-
 tions obtained from flight of Apollo 4
 (AS-501), 17219
 lunar surface transmission loss for Apollo
 astronaut, 1129
 management controls of quality assurance
 system for Apollo, review of program,
 GAO report, 7035
 manned lunar landing GOSS, ground op-
 erational support systems, mission pro-
 file (colored poster), 5968
 manned space flight, NASA facts, 13054
 men of Apollo crews 7 through 11, color
 prints, 13057
 NASA posters, 14566
 program management, staff study, 15327
 Saturn S-IVB-503 stage accident under
 Apollo program, GAO review, 8336
 scientific experiments for Apollo Telescope
 Mount, Project, 7250
 spacecraft, chronology through Nov. 7,
 1962, 13060
 Project Buggy (plowshare program):
 preshot geologic and engineering proper-
 ties, investigations, 13704
 Project Cabriolet (field catering experi-
 ment):
 close-in air blast from Cabriolet event,
 1601
 ecological and environmental effects from
 local fallout, 13707
 preshot geological engineering investiga-
 tions, 1602

INDEX 1969

- Project Cabriolet—Continued
 preshot geophysical studies of Cabriolet nuclear crater site, 16626
 special cloud content studies, 16627
 Project Concern, Hartford, Conn., 6873
 Project Dribble (Vela Uniform program):
 Salmon event, free-field particle motion from nuclear explosion in salt, 9074
 Project Dugout (plowshare program):
 seismic interference and reciprocity for HIE row charge, 13705
 Project FLOOD (fleet observation of oceanographic data):
 report on data collected by Mine division 43, central Mediterranean Sea, 13235
 Project Gemini (man-in-space program):
 earth photographs from Gemini missions, 11427
 simulation of Gemini extravehicular activity with flight results, correlation study, 5970
 technology and operations, chronology, 11432
 Project Hancard (plowshare program):
 ground motion and containment, analysis of data, 13706
 Project Head Start:
 community action program, child development centers, good nutrition, 12405
 daily program, manual for teachers, 563
 dentist and Project Head Start, 12398
 early childhood, bibliography, 14378
 newsletter, 2954
 parent involvement, workbook of training tips for Head Start staff, 9638
 physician and Project Head Start, 6846, 12403
 program, administration, message from the President, 6575
 psychologist for child development center, 10964
 research, 1965-69, review, 9635
 series, 563, 9638, 10964, 12405
 staff training programs, guide for nutrition education, 10963
 Project Palanquin (plowshare program):
 close-in air blast from cratering nuclear detonation in rhyolite, 3804
 long range airblast, 7696
 preshot geologic and engineering properties investigations, 1600
 preshot geophysical properties of Palanquin crater site, 3805
 radiosensitivity of certain perennial shrub species based on study of nuclear excavation experiment, Palanquin, with other observations of effects on vegetation, 9064
 Project Parka (Pacific Acoustic Research Kaneohe-Alaska):
 Sea Spider site survey in support, 13252
 Project Pre-Gondola (field cratering experiment):
 crater studies, surface motion, 7697
 geologic investigations and engineering properties of craters, 11960
 intermediate range ground motions and associated events, 1603
 Project Pre-Gondola II (plowshare program):
 close in ground motion and earth stress, 3806
 Project Pre-Schooner (field cratering experiment):
 surface motion measurements, 5170
 Project Pre-Schooner II (plowshare program):
 surface motion measurements, 3803
 Project Prime, *see* Resource management system.
 Project R-3, San Jose, Calif., 6901
 Project RAM (radio attenuation measurements), *see* Attenuation.
 Project REMED, medically trained veterans where do you go from here? Project REMED, 5546
 Project Scanner, infrared horizon profiles for winter conditions, 2231
 Project Sealab (man-in-the-sea program):
 planned Sealab III habitat vicinity, submarine sediment investigation, 14725
 Project Skywater (atmospheric water resources program):
 annual report—
 contractor reports, 7440
 summary, 7439
 Colorado River basin pilot project, scientific review plans and design, 14837
 first 7 years, 14836
 optimization of operational weather modification, conference proceedings, 4909
 physics and chemistry of nucleation, conference proceedings, 13401
 production and delivery of cloud nucleating materials, conference proceedings, 8832
 special park range cooperative experiment, summary report, 14827
 Project Stormfury, annual report, 13307
 Project Surveyor (unmanned lunar exploration):
 Surveyor program results, 14597
 Project transition, programmed instruction, photography, 8758
 Projectiles:
 cylindrical polycarbonate, shock-wave pressure decay in polycarbonate targets, 2228
 effect of density and target temperature when determining crater characteristics of 11 metal alloys under hyper-velocity impact, 8627
 liquid-filled projectile design, engineering design handbook, 9028
 projectile shape effects on hypervelocity impact craters in aluminum, 2252
 soil-projectile system, application of similitude to model design, 1027
 Projections of educational statistics to 1977-78, 6896
 Projector, Dorothy S., issues in financing old-age and survivors insurance, 2108
 Prokopius, Paul R., experimental investigation of dynamics of water rejection from matrix type of hydrogen-oxygen fuel cell, 2255
 Prolate spheroids, *see* Spheroids.
 Prologue, journal of National Archives, 10171
 Promotional practices by public utilities and their effect upon small business, 3979
 Promotions:
 Air Force, active duty promotion list, 5078
 airman, weighted promotion system, 13638
 evaluation of employees for promotion and internal placement, 12046
 Federal Aviation Administration, merit promotion program, handbook, 11043
 Federal merit promotion policy, 12045
 weighted airman promotion system field test, analysis of promotion board component in weighted factors system, 10512
 Pronin, Dimitri, literature survey of Populus species with emphasis on *P. tremuloides*, 675
 Propaganda, *see* Communism.
 Propagation:
 and damping of sound vibrations on ships, USSR study, 7153
 data, irregular terrain, tabulations, Fritz Peak receiver site, 9722
 fatigue-crack-propagation—
 behavior in panels with simulated rivet forces, prediction, errata, 4699
 high-strength steel under constant cyclic load with variable mean loads, 6151
 in cylindrical shells, 1018
 governing equations for wave propagation in homogeneous isotropic continuous fluid, 12588

Propagation—Continued

- ionosphere, delay measurement techniques using dual phase coherent doppler frequencies and thin shell model, 13288
- Loran-C, D phase correction over irregular, inhomogeneous terrain, simplified computer methods, 12570
- magnetospheric duct propagation research using Alouette-2 topside-sounder observations, 14612
- radio waves—
 - measurements over irregular terrain in 76- to 9200-MHz range analysis, 12569
 - VLF effective ground conductivity map of Canada and Greenland with revisions derived from propagation data, 10269
 - stress wave propagation in elastic-plastic-compactible media for blast shields, 5158
 - 2GHz electromagnetic wave propagation over optical paths in 3 geographical regions of United States, study, 17205
 - VHF curves, development for Maritime Mobile Radio Service, 12604
 - vinifera grape varieties, chip-bud method of propagating on rootstocks, 14996
 - VLF mode calculations for across land/sea boundary in earth-ionosphere waveguide, 1833
- Propanes, development of propane hydrate desalting process, 801
- Propellants:
 - chugging to liquid-propellant rocket engines having multi-element injectors, application of double-dead-time model, 11491
 - expanding storable propellant-products simulated by combustion of gaseous reactants, experimental measurements, 14642
 - liquid rocket acoustic-mode-instability studies at nominal thrust of 20,000 pounds interim summary, 2262
 - precision flow measurement techniques for low-thrust auxiliary propulsion liquid rockets, 4700, 11433
 - slosh loads, NASA space vehicle design criteria, structures, 2214
 - solid—
 - aluminized composite solid propellant, effects of steady-state acceleration on combustion characteristics, 2233
 - rocket vehicle, natural frequencies and mode shapes investigation errata, 2215
 - sampling, examination and testing, military standard, 14100
 - under acceleration, experimental investigation of effect of aluminum size and loading on burning rates, 16163
 - solid-propellant combustion instability and role of velocity coupling 14639
 - theoretical nonequilibrium performance of oxygen difluoride-diborane, 4722
- Propellers:
 - aircraft—
 - current industrial reports, 9124
 - single, on large semispan tilting wing, *see*—
 - aerodynamic data, 4741
 - pressure distribution, 17231
 - type, certificate data sheets and specifications, 1846, 2579
 - static balancing, standards raised USSR study 15914
 - twin-propeller deflected-slipstream STOL airplane model with boundary layer control on inverted V-tail, aerodynamic characteristics, 1982
- Properties of high emittance materials, 5979
- Property:
 - all residential properties, construction reports, residential alterations and repairs, 11997
 - assessment ratio studies, 12019

Property—Continued

- conveyance to Maryland for highway use reports, 15245, 15413
- donated, valuation, tax information, 5780
- FHA improvement loans, dealer and contractor guide, 14388
- institutions of higher education, financial statistics, 9653, 15631
- insurance standards, rehabilitation grants and loans to meet requirements, 15836
- sales and other dispositions of depreciable property, tax information, 12838
- tax information—
 - assets, sales and exchanges, 8438
 - cost or other basis of assets, 8447
 - urban property protection and reinsurance program, operation, hearings, 9337
- see also*—Condemnation of property—Personal property—Public property—Real estate—Surplus property.
- Prophylaxis:
 - anti-influenza drug amantidine, evaluation of prophylactic activity, USSR study, 15950
 - oral pellet, stable stannous fluoride preparation, 16570
 - radiation sickness, antimetabolites in treatment, USSR study, 5814
- Prophylaxis pastes, *see* Dentifrices.
- Proposal to link reserve creation and development assistance, 12131
- Proprioceptive systems, proprioceptive cues and their influence on operator systems in manual control, 4672
- Propulsion:
 - airbreathing system testing using sweep frequency techniques, 17233
 - auxiliary propulsion system flight anomalies, investigation of SA-501 S-IVB, 10129
 - electric propulsion mission analysis of spacecraft, terminology & nomenclature, 17215
 - large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system—
 - angle of attack, subsonic aerodynamic characteristics, 14611
 - subsonic performance characteristics, 14610
 - motor plume, estimating diameter of plasma, 14746
 - nuclear, naval program—
 - AEC authorizing legislation, 1970, hearings, 9243
 - hearings, 10686
 - solar-electric systems, use in interplanetary probe missions, 13097
- Prosecutions and seizures under Federal seed act, 15482
- Prospecting:
 - atomic-absorption methods of analysis useful in geochemical exploration, 17071
 - mineral, application of biogeochemistry survey, 1042
 - prospecting for radioactive minerals, supplement to facts concerning uranium exploration and production, 940
- Prospects for further considerable extension of the periodic table, 10575
- Prostheses, prosthetics research bulletin, 8930
- Protect your future, 6234
- Protecting property in computer software (address), 17318
- Protection of the individual as a research subject, 8812
- Protection of Industrial Property, International Bureau for, *see* International Bureau for Protection of Industrial Property.
- Protection of industrial property rights internationally (address), 17319
- Protective clothing, *see* Clothing.
- Protective coatings, *see* Coating materials.
- Protective compounds for personnel, military standard, 14104

- Protective equipment, *see* Safety equipment and appliances.
- Protective shelters:
- blast type shelters, nuclear weapons effects tests, documentary compendium of test reports, 16620
 - civil defense shelter rations, storage stability, annual report, 3759
 - fallout shelters—
 - apartment houses, design techniques, 3871
 - design and analysis, 10622
 - environmental engineering, design and analysis, 9178
 - home—
 - above ground shelter, 16676
 - outside concrete shelter, 6516
 - HUD aids for fallout shelter development, 16677
 - in terminal buildings, 9739
 - qualified analysts, national directory, supplement, 261
 - storage of shelter supplies, protective devices, 258
 - technical reports, 265, 15133
 - technical standards, 10621
 - protection against means of mass destruction, USSR study, 7127
 - survival preparedness in rural areas, programmed instruction, 5667
- Proteins:
- effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058
 - serum, estimation by quantitative densitometry after gel electrophoresis, 6421
 - see also* Hydrolysis.
- Proteolytic activity of nerve tissue, 8496
- Protocol:
- status of refugees—
 - message from the President, 436
 - report, 1726
- Proton beams, large area proton beams for radiobiologic research from NASA-SREL synchrocyclotron, 6116
- Proton scattering, *see* Scattering.
- Protons:
- acute somatic effects in primates, 82
 - annealing of 22-, 40-, and 158-MeV proton damage in n- and p-type silicon, 8622
 - inner belt protons, models of trapped radiation environment, 11431
 - 150-MeV proton, irradiation in rhesus monkeys, early effects, 3698
 - 1000 GEV cybernetic proton accelerator, 1596
 - proton-produced defects in n-type silicon, 1066
 - proton synchrotron, 1/2 TeV, transverse shielding calculations for components, 7681
 - solar proton monitoring system, 14170
 - sudden ionospheric disturbances, analysis, proton solar flare—
 - of 0026 UT, July 7, 1966, 1834
 - of 1522 UT, Aug. 28, 1966, 4217
 - 21 MeV, elastic scattering, from nitrogen 14, oxygen 16, argon 40, nickel 58, and tin 116, 1138
- Protozoa, parasites, subject catalogue, 1498
- Prouty, Winston L., Washington inner city poverty survey, 1743
- Providence, R.I.:
- area wage survey, 16013
 - Metropolitan Interstate Air Quality Control Region, report for consultation, 13370
- Provider reimbursement manual, revision, 2452
- Proving rings, calibration procedures for load cells and proving rings as weighing devices, studies, 4766
- Provisioning and other preprocurement screening manual, 16910
- Prunes, fresh, feasibility of shipping jumble packed in fiberboard boxes, 14997
- Pruning:
- ornamental shrubs and vines, 5045
 - ponderosa pine, effect on growth, 4330
 - tree pruner, modified, for twig sampling, 9850
- Pryor Mountains, area, Crow Indian Reservation, Mont., soil & range resources inventory, 12821
- Przybyszewski, John S., friction and contact resistance during sliding in vacuum of some low-resistivity metals lubricated with sputtered molybdenum disulfide films, 13124
- Pseudoreplication, further evaluation and application of balanced half-sample technique, 6209
- Psittacosis, surveillance, National Communicable Disease Center, annual summary, 11623
- Psychiatric clinics, *see* Clinics.
- Psychiatric disorders, *see* Mental illness.
- Psychiatric nurses, *see* Nurses and nursing.
- Psychiatric patients, *see* Mentally ill.
- Psychiatrists, nation's psychiatrists, 11625
- Psychiatry:
- and the deaf, report, 2451
 - psychiatric-mental health nursing institutions offering stipends, list, 13351
 - psychiatric strengths and weaknesses of typical Air Force pilots, 3717
 - Veterans Administration cooperative studies, conference highlights, 1486
- Psychics and the brain, USSR, 4450
- Psychological technicians, and aids, professional opportunities in Veterans Administration, 13516
- Psychological tests, *see* Mental tests.—Psychological tests.
- Psychologists:
- clinical or counseling, professional opportunities in Veterans Administration, 13516
 - employment outlook, 4540
 - examination announcement, 9189
 - psychologist for child development center, Project Head Start, 10964
 - Soviet psychologists' congress, report, 2067
- Psychology:
- changes associated with deprivation from smoking, 5927
 - cybernetic aspects of a set, USSR study, 842
 - practice in District of Columbia, regulate, hearing, 15431
 - psychics and the brain, USSR study, 4450
 - psychological and social aspects of human tissue transplantation, annotated bibliography, 4892, 11631
 - psychological aspects of foreign policy, hearings, 12298
 - psychological assessment of patrolman qualifications in relation of field performance, 8530
 - see also* Engineering psychology.—Interest (psychology)—Validity (psychology).
- Psychometrics, stability of Edwards personal preference schedule need scale scores and profiles over 7-week interval, 14495
- Psychopharmacology:
- abstracts (periodical), 3340
 - bulletin, 14801
 - 1957-67, review of progress 6197
- Psychotics, *see* Mentally ill.
- Psychotomimetic drugs, psychotomimetic agents, comparison of effects on some forms of mouse, rat, and dog behavior, USSR study, 4443
- Psychotropic drugs, and related compounds, supplement, 14802
- Pterodrilus, *see* Annelids.
- Pteromalidae, species of Spalangia Latreille in U.S. National Museum collection (Hymenoptera: Pteromalidae), 13416
- Ptychocheilus oregonensis, *see* Squawfish.
- Public accountants, *see* Accountants.

Public administration :
 managing modern public sector (remarks), 17425
 recent research reference, 17083
 Public administration bulletin, Vietnam, 12861
 Public affairs, see Public Information.
 Public assistance :
 AB and APTD, aid to blind or disabled people, programs, 3787, 6465
 AFDC study, 1967, preliminary report from mail questionnaire, 7330
 annual statistical data, 2302, 17269
 caseloads, impact of public assistance work and training programs, and training programs under Manpower development and training act, 2967
 cases, reasons for opening and closing, 2306, 11528, 16236
 caseworkers, appointments, separations, promotions, analysis, 1977
 costs of State and local administration, services and training, 7335
 District of Columbia mass transit bus system, hearing, 9456
 Federal domestic assistance programs, catalog, 5519
 forest landowners, 5060
 medical program, costly problems, hearings, 15432
 medical assistance financed under public assistance titles of social security act, 2298, 7333, 8673, 13162, 16235
 medical care, vendor payments by type of service, 2303, 8674
 money payments to persons aged 65 or over, concurrent receipt, 7331, 17267
 monitoring of special review of aid to families with dependent children in New York City, conducted by Health, Education and Welfare Dept., and New York State Dept. of Social Services, GAO report 16827, 17056
 public assistance reports, 10364, 13434
 recipients, work incentive program, 5440
 repatriates, temporary assistance, 11958
 source of funds expended for payments, 11529
 special types, money payments to recipients, 2299
 State, characteristics of plans under Social security act, general provisions, eligibility, assistance, administration, 13434
 State maximums and other methods of limiting money payments to recipients of special types of public assistance, 10183
 State medical assistance, payments, reduction prohibited, law, 15204
 State plans, staff development provisions, 10364
 statistics, monthly advance release, 2554
 unemployed-parent segment of aid to families of dependent children, 3540
 welfare in review (periodical), 3601
 welfare reform—
 draft bills, summaries, and other material transmitted by Health, Education, and Welfare Dept., the President's proposals, 16826
 preliminary analysis of administration proposals, 16896
 proposals, message from the President, 13861
 welfare reform and food stamps, hearings, 15478
 work and training programs, impact on caseloads, 2967
 see also Social work and problems.
 Public Broadcasting Corporation :
 financial support—
 hearings, 10796
 reports, 8049, 15259
 grants, extend, hearings, 8058
 member, nomination of Albert L. Cole, hearings, 9452

Public buildings :
 design administration, GSA handbook, 6166
 Federal buildings, Federal facilities, a day in September, documentary motion picture on civil defense, announcement, 7760
 financed with Federal funds, design and construction, 16407
 leased and Government constructed, prospectuses, hearing, 16898
 Public comfort stations :
 rest area comfort facilities, determination of needs by systems analysis, 10344
 rest area use study manual, 14819
 Public contracts, see Government contracts.
 Public debt :
 increase in ceiling—
 hearing, 6783
 law, 7831
 reports, 6660, 6687, 8019
 redefine and increase ceiling, hearings, 5384
 statutory ceiling, revise, 6578
 Treasury Department circulars, 1476, 2524-25, 7549-50, 14946-948, 17421-422
 Public Documents Division :
 classified list of Government publications, 1325, 14777
 price lists, 1326-29, 2403-8, 4865-68, 6169-71, 7409-10, 8787-92, 10292-93, 13332, 17328
 Public domain, see Public lands.
 Public employment, see Employment.
 Public Engineering Policy Committee, National Academy of Engineering, technology assessment study, report, 16824
 Public facilities :
 municipal financing, hearings, 344
 requirements over next decade, hearings, 6567
 Public funds :
 design and construction of public buildings financed with Federal funds, 16407
 expenditures, estimating benefits, guidelines, hearings, 12130
 State highway safety programs, problems arising from Federal grants, GAO report, 11221
 Public health, see Health.
 Public Health Conference on Records and Statistics, 1970 census and vital and health statistics, study group report, 7432
 Public health schools, offering nurse traineeships for full-time academic study, 14806
 Public Health Service :
 act, amend—
 hearings, 9360, 14054, 14057, 16820
 reports, 10731, 10762, 16863
 acts, as amended laws, compilation, 493, 5458
 allied health professions training act of 1966, amended, reports, 8683, 13167
 Analytical Reference Service studies, 10295, 14779
 commissioned officers, equalization of retirement benefits, report 16856
 cooperative studies, renal disease and hypertension, conferences, proceedings, 14800
 CORDC, commissioned officer residency deferment program, 4897
 crime and violence on television, Surgeon General to study, proposal, hearings, 9453
 grants and awards—
 construction of facilities, funds, 1347, 16264
 directory of migrant health projects, 10300
 grants to States for public health services, 1336
 health services, formula, project, regional medical planning, etc., 1348
 research, 11633

INDEX 1969

Public Health Service—Continued
 grants and awards—continued
 summary tables and graphic highlights, 4894
 health research facilities, construction program, Surgeon General's report, 3950
 hospitals, medical residencies and internships, 7422
 Indian and Alaska native hospitals, contract hospitals, field health, annual statistical review, 14780
 Indian health program, 8808
 progress, etc., 13349
 report to the first Americans, 13377
 international postdoctoral research fellowships, awards for study in U.S., 6065
 nursing schools awarded construction grants, Dec. 1968–June 1968, list, 2419
 policy for protection of individual as research subject, 8812
 provide sanitation facilities for Indians, public health laws, compilation, 493
 public advisory groups, authority, structure, functions, 1343, 4889
 public health laws, compilation, 493
 Public Health Service-labor seminar on consumer health services, papers, 6198
 publications, 1340
 regional medical programs, conference of coordinators, 2412
 regulations on biological products, etc., 4873
 research grants index, 7346
 Surgeon General's interim report of Scientific Advisory Committee on Television and Social Behavior, hearings, 15428
 traineeship programs—
 professional nurse full-time academic study, 14806
 professional nurse short-term courses, 8699, 16265
 uniformed services—
 joint travel regulations, 1786
 travel regulations, 3019
 Public housing, *see* Housing.
 Public information:
 extension work in public affairs, 16554
 freedom of information act, compilation and analysis of departmental regulations implementing 5 U.S.C. 552, 1702
 Navy Department, direction for commanding officers, and public affairs staffs (periodical), 2771
 Post Office Department, PI series, 13320, 14771
 public affairs handbook, the printed word, 564
 safeguarding classified information, FAA handbook, 626
 utility companies, subject to utility consumers' counsel act of 1969, hearings, 5449, 6789, 9467, 12301, 14038
 print additional copies, report, 12275
 Vietnam, hamlet security, measuring, special study mission, report, 5358
 Public information and highway safety, 16250
 Public Land Law Review Commission:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398
 Public lands:
 Alaska, general information, 12987
 appeals, Interior Department decisions, 2989
 code of Federal regulations, 4274, 9817
 control, regulation, and management of fish and wildlife on Federal lands, by States, hearing, 16881
 Federal lands for parks and recreation act of 1969, hearing, 9470
 grazing fees—
 hearings, 9471
 increase, hearings, 10790
 Interior Department decisions, 2986

Public lands—Continued
 management of fish and resident wildlife on Federal lands, by States, hearings, 461, 5432
 Natrona Unit, Wyo., guide, 12983
 noxious weeds, control by State and local officials, authorize, hearings, 387
 our public lands (periodical), 3230
 patenting mining claim on Federal lands, basic procedure, 7191
 public access to public domain lands, 2
 case studies of landowner-sportsman conflict, 1514
 public land law development, history, 1359
 room to roam, recreation guide, 10035
 SBA services for concessioners on Federal lands, 7448
 statistics, 11360
see also names of States, etc., where lands are located.
 Public law 480, *see* Agricultural trade and development and assistance act of 1954.
 Public laws, *see* Law.
 Public libraries, *see* Libraries.
 Public management, *see* Administrative management.
 Public opinion:
 public recreation to proposed changes in operation of Federal reserve discount facility (remarks), 8245
 they said it couldn't be done (address), 10577
 Public ownership of lands in Federal reclamation projects, 16876
 Public papers of Presidents of United States, 1883–84
 Public policy:
 for graduate education in sciences, 6099
 mineral resource valuation, 14530, 17173
 parameters, graduate education, 8738
 science, technology, and public policy, government-science relationships during 90th Congress, 1st and 2nd sessions, 15330
 Public printing and binding, regulations, 7991
 Public property:
 code of Federal regulations, 8227
 Federal property and administrative services act of 1949, amend, report, 15402
 Federal property, logistics management reporting procedures ARNG budget computation and summary report, 17272
 Government owned and leased real property overseas, improvements needed in management by State Dept., GAO report, 15782
 management, code of Federal regulations, 5632–33, 6968–70, 8226
 mechanized supply and accounting procedures for office of United States property and fiscal officers (USPFO), 7339
 national industrial reserve, Defense Department, annual report to Congress, 14080
 public grounds in D.C., limit use for demonstration purposes, require posting of bond—
 hearings, 10804
 reports, 10711, 10719
see also Real estate—Personal property.
 Public relations, workers, employment outlook, 4474
 Public roads, *see* Roads and highways.
 Public Roads Bureau:
 Director, nomination of Ralph R. Bartelsmeyer, hearing, 8092
 Federal-aid and allied highway programs, tables, 4255, 11059
 highway or highway bridge engineering, opportunities for young engineers, bridge to your success, 16385
 professional highway engineer, opportunities, 14817, 16388
 program (series), 2436, 4905, 10341, 16381–382

- Public Roads Bureau—Continued**
 right-of-way training program, challenging opportunities, 16383
 skid resistance studies, 14820
Public safety, see Safety of life.
Public schools, see Schools.
Public service:
 career for veterans in deprived areas, special encouragement, hearing, 499
 executive leadership, 8929
Public Service Commission of District of Columbia, annual report, 4148
Public speaking, aerospace speechmaking guide, 16564
Public speaking engagements, see Addresses, lectures, etc.
Public utilities:
 holding companies, security transactions and holdings, 3217
 promotional practices, effect upon small business—
 hearings, 4003
 subcommittee report, 3979
 public utility holding company act of 1935, regulations S-X, 1375
 utility consumers' counsel act of 1969, hearings, 5449, 6789, 9467, 12301, 14038
 print additional copies, report, 12275
Public welfare:
 agencies—
 criteria and guidelines for evaluation of in-service training, 1385
 staff development, administrative approaches, 1384
 aid to blind or disabled people, AB and APTD programs, 3787, 6465
 code of Federal regulations, 11129
 from welfare to wages, work incentive program, 4467, 14442
 personnel—
 1966 data, 2305
 1967 annual statistical data, 2304
 1968 annual statistical data, 16408
 public welfare and statistics, 7th workshop meeting, methodology for today's tasks, proceedings, Aug. 27-30, 1967, San Francisco, Calif., 4932
 role in housing, 14381
 State salary ranges of positions, 762, 11259
Public works:
 appropriations, 1970—
 report, 15298
 water and power resources development, hearings, 12204, 13918
 code of Federal regulations, 8227
Economic Development Administration
 grants for public works and development facility projects, improvements needed in procedures for determining supplementary assistance, GAO report, 4340
 economic development districts authorized under provisions of Public works and economic development act of 1965, status, 14117
EDA grants and loans for public works and development facilities, 12390, 16940
Engineers Corps, Army, report 1967, civil works activities—
 departmental edition, 1819
 document edition, 1688
 specific project data—
 departmental edition, 5568
 document edition, 5319
 financial administration, accounting and reporting, regulations, 8180
 planning, advances, 12813
 public works and economic development act of 1965—
 administration of sec. 702, hearings, 416
 amendments of 1969—
 appropriations to finance, authorization, extend, hearings, 10802
 Public works—Continued
 public works and economic development act of 1965—continued
 hearings, 10802
 maximum grant rates in qualified areas, 5517
 title 5, amend, hearings, 9491, 10801, 10919
 river basin monetary authorizations, 1968, flood control, hearings, etc., 415
 Public Works Committee, House:
 calendar, 3048
 committee prints, 417, 5381
 hearings, 415-416, 1709, 6728-29, 7970-71, 10801-804, 13939, 15326, 16822
 investigations and studies—
 authorization, report, 6651
 expenses, report, 7578
 legislative activities, 90th Congress, 5381
 reports, 6696, 10711, 10727, 10740, 10751
 travel authorization, report, 15282
 Public Works Committee, Senate:
 additional staff, provide, report, 4066
 calendar, 3065
 committee prints, 4097, 8093, 14061
 hearings, 500-502, 1744, 4096, 6799-6803, 8089-92, 9490-94, 10919, 12319-323, 14060, 16898
 investigations and studies expenses, report, 4066
 legislative activities and accomplishments, summary, 90th Congress, 8093
 reports, 5402, 6736, 9410, 10875, 10881, 12259, 12273-274, 12281, 15370, 16855
 Publications, Federal item identification guides for supply cataloging, supplements, 2849
 see Government publications—*also* names of departments, etc., issuing publications—*also* subjects.
Publicity, defense utilization and marketing handbook, supplement, 16912
Publishing, industry report, 3334
Pueblo (U.S.S.):
 incident, inquiry—
 hearings, 12205
 special subcommittee report, 12207
 persons serving aboard, held captive by forces of North Korea, payment of claims, amend War claims act, reports, 9299, 9321
 tax treatment of individuals serving at time of capture by North Korea, report, 7911
Pueblo, Colo.:
 flood plain information, 9674-75
 Fountain Creek floods, how to avoid damage, 12507
 Goodnight Arroyo, Dry Creek & Wild Horse-Dry Creek floods, how to avoid damage, 9708
 northern part, general and engineering geology, 14330
Pueblo de Taos Reservation:
 lands, grant trust title to Indians—
 hearings, 481, 9353
 reports, 10743, 10760
Pueblos, see also Laguna Pueblo.
Puerto Ricans, and labor market, facts, 14479
Puerto Rico:
 climatological data, 2662
 coast pilot, supplement, 5279
 concrete dams, condition, 8828
 east-central, changes in stratigraphic nomenclature in Cretaceous system, 7046
 labor force experience of the worker, 12980
 mineral industry, minerals yearbook chapter, 963
 minimum wage rates—
 agriculture, 13518
 children's dress and related products industry, 13519
 construction industry, 10448

Puerto Rico—Continued

- minimum wage rates—continued
- corsets, brassieres, and allied garments industry, 11771
- fabric and leather glove industry, 13520
- handkerchief, scarf, and art linen industry, 11772
- hosiery industry, 13521
- hospital and related institutions industry, 13522
- hotel and motel industry, 13523
- local transit industry, 13525
- laundry and cleaning industry, 10449
- men's and boys' clothing and related products industry, 11773
- needlework and fabricated textile products industry, 11774
- 1966 coverage enterprises in wage order industries established before 1966, data pertinent to review, 13526
- retail trade industry, 10450
- restaurant and food service industry, 13527
- rubber products industry, 13528
- shoe and related products industry, 13529
- sweater and knit swimwear industry, 11775
- textile and textile products, 13530
- tobacco industry, 13531
- women's and children's underwear and women's blouse industry, 11776
- nautical chart catalog, 12060
- northwestern, Aguada limestone, 4354
- petroleum refineries, mineral industry survey, 2169, 14548
- Puerto Rico and other outlying areas, 1967-68, estimates of population, 9157
- U.S. trade, monthly report, 2912
- violence, Communist threat to U.S., hearings, 5467
- water resources development by Army Corps of Engineers, 12554
- Puffett, Willard P., Reany Creek formation, Marquette County, Mich., 4353
- Puget Sound:
 - Air Quality Control Region, report for consultation, 13371
 - Benthic polychaetes from, with remarks on four other species, 2314
 - influence of design on exposed wood in buildings of area, 4302
 - National Wildlife Refuges, general information, 2474
- Puglisi, Enzo A., construction review, monthly industry report, 2696
- Puhan, Alfred, nomination, hearing, 8065
- Pulaski County, Ark., community profile, 15596
- Pullen, Edward J., hydrological conditions in Clear Lake, Tex., 6551
- Pullets, *see* Chickens.
- Pullman Company, transport statistics, 15895
- Pullman, Wash.:
 - flood plain information, 10998
 - floods, how to avoid damage, 11000
- Pulmonary diseases:
 - research conference, transactions, 1487
 - research conference, transactions, 17434
- Pulmonary functions, *see* Respiratory system.
- Pulp:
 - current industrial reports, 2732, 5211
 - industrial wage survey, 5596
 - industry—
 - employment outlook, 4585
 - report, 3349
 - see also* Wood pulp.
- Pulp wood, *see* Wood pulp.
- Pulpboard:
 - current industrial reports, 2732, 5211
 - Douglas-fir flakeboard, laboratory-made, durability, 1912
 - fire-retardant treatment for particleboard, exploratory investigation, 17017

Pulpboard—Continued

- particleboard, current industrial reports, 9140
- Pulpwood, *see* Wood pulp.
- Pulsars, pulsars and other periodic astrophysical phenomena, possible applications of continuity-equation plasma oscillation, 7264
- Pulse waves:
 - pulse-response curves of conventional low-pass filters, 17241
 - staggered pulse trains or spectra, eliminating radar ambiguities by processing, 7379
- Pulsed reactors, *see* Reactors (atomic).
- Pulses:
 - circumferential waves on aluminum cylinders in water, experimental examination, 13281
 - CO₂ technique for determining residual gas life of charcoal beds, bench-scale studies, 13282
 - impulsive motion on flat plate pulsed with uniform heat flux, 10151
 - processing signals with variable pulse repetition frequency, 2055
 - pulse tone technique and audiometer modification for pure-tone threshold determination, 1550
 - pulsed light sources, program to evaluate dye lasers, 11418
 - transformer of closely spaced waveforms having nonzero average value, 16200
 - tropospheric pulse propagation, 15675
- Pulses (seeds):
 - dried, foreign agriculture circulars, 2902
- Pulverized-coal flames, flame propagation in absence of recirculation, 5960
- Pumice, minerals yearbook chapter, 17191
- Pumping, Rocky Mountain arsenal disposal well, seismic activity during test pumping, 5711
- Pumping equipment, *see* Pumps.
- Pumpkins, growing, 10480
- Pumps:
 - advanced high-speed fuel pumps for small gas-turbine engines, 10555
 - axial-flow—
 - 1500° F (1089K) liquid sodium, performance and cavitation damage, 7296
 - liquid sodium, cavitation damage and effect of fluid temperature on performance, 16202
 - cavitation performance for various liquids, liquid temperatures, and rotational speeds, method for prediction, 13096
 - centrifugal, analytical method for predicting performance during pressurized startup, 2261
 - current industrial reports, 3854
 - Federal item identification guides for supply cataloging, supplements, 2845
 - high hub-tip ratio axial flow pump in water to 250° F (394K), effect of fluid temperature on cavitation performance, 11493
 - low area ratio water jet pumps having throat lengths of 3.54 diameters, non-cavitation and cavitating performance, 7272
 - lubrication with some polyphenyl ethers and superrefined mineral oils in 600° F (316° C) inerted vane pump loop, 7273
 - mechanical vacuum pumps, control and reduction of oil mists, glovebox fire safety application, 13719
 - potential economic benefits from use of radioisotopes in flow measurements through pumps, etc., 10347
 - pump and seal characteristics of helical groove geometry incorporated in combined bearing and pump, experimental study, 10140

Pumps—Continued
 pumping and energy recovery systems for reverse osmosis desalination plants, 15855
 pumping station, establishment in Everglades National Park, Fla., hydrogeologic data, 8349
 rotary kinetic fluid, classification definitions, 13312
 two-phase hydrogen flow in pump inlet line, investigation, 13079
 vacuum pumping doubles maple sap yield on flat land, 15758
 Punch tools, selective cutting (e.g. punching), classification definitions, 1291
 Punched card systems, key punching, New Florencia, case study for 1970 censuses of population and housing 7751
 Pungo National Wildlife Refuge, general information, 1425
 Pupil (eye), *see* Eyes.
 Pupils (students), *see* Students.
 Puppo, Alberto, application of micromechanics to joints and cutouts, 9059
 Pūpūkea, Hawaii, floods, cause possible solutions, etc. 12508
 Purchasers, *see* Vendors and purchasers.
 Agricultural Stabilization and Conservation Service, reports, 350
 buying and selling a small business, 8848
 Purchasing
 buying secondhand sewing machine, 8985
 canned and frozen vegetables, how to buy, 10482
 consumer buying indicators, series, 246, 5225, 9160, 13770
 could you use multimillion dollar customer? VA invites you to submit your product or service, 17436
 fish and shellfish, buying guide, cost per portion, 12074
 food, how to use USDA grades in buying, 6394
 Government directory, 4926
 Government guide for businessmen, 17068
 homeownership assistance for purchase and resale of housing to lower income families, 1986
 implementing procedures for purchase of supplies assigned to DSA under DoD coordinated procurement program, 8118
 institutional meat purchase specifications approved by USDA—
 cured, dried, and smoked beef products, 15480
 fresh beef, 6815
 fresh veal and calf, 9503
 lamb and mutton, 1747
 pork products, cured, smoked, etc., 5469
 sausage products, 1748
 leasing rather than purchasing land and buildings by Defense Dept. contractors, increased costs to Government, GAO report, 711
 requirements contracting and other aspects of small purchases in Defense Dept., GAO review, 4343
 spendable earnings and purchasing power, monthly release, 3453
 surplus personal property, how to buy from Defense Dept., 10950
 Transportation Dept., what, where, and how it buys, 18510
 visit, investigate, purchase, at America's top trade expositions, 9216
 Purchasing agents:
 buyers, pay, national survey, 4597
 employment outlook, 4541
 Pure-tone air conduction audiogram, 16571
 Purification of water, *see* Water purification.
 Purple Creek:
 flood plain information, 9698
 Jackson, Miss., vicinity, floods, how to avoid damage, 12536

Purtymun, William D., geologic data for U20u satellite holes #1, #2, #3, and #4, and studies of orientation of joints in Thrifty Canyon Tuff, area, 20, Pahute Mesa, Nevada test site, 9896
 Puthoff, Richard L., reactivity changes of fast reactor core due to elastic-plastic strain and creep, 4738
 Putnam, William F.:
 investigation of dynamic stability characteristics of quad configuration ducted-propeller V/STOL model, 1584, 3782
 longitudinal dynamics at high duct incidence, data report, 181
 Putting satellites to work, 11421
 Puttkamer, Jesco von, survey and comparative analysis of current geophysical models, 10114
 Putz, R. E., parasites of freshwater fishes, miscellaneous, anchor worm (Lernaea cyprinacea) and related species, 1410
 Putzel, Henry, jr.:
 official reports of Supreme Court, United States, preliminary print, 3216
 United States reports, cases adjudged in Supreme Court, 1458-59, 4983, 7538
 Puzak, P. P.:
 ratio analysis diagram interpretations of fracture toughness characteristics of maraging steel welds in range from 150- to 200-ksi yield strength, 11570
 standard method for 1-inch dynamic tear test, 16314
 Pyatt, David W., reentry behavior of PuO₂ microspheres, collation study, 5184
 Pyelonephritis, Public Health Service cooperative studies, conferences, proceedings, 14800
 Pyorrhea, *see* Periodontal disease.
 Pyralidae, *see* Moths.
 Pyridines, monosubstituted, carbon-13 nuclear magnetic resonance spectra, 11376
 Pyrites:
 analysis of pyrite distribution, application to microscope system using automated reflectance scanning to study coal components, 10057
 reactivity of ammonium nitrate-fuel oil with pyrite-bearing ores, 975
 size distribution and coal-pyrite particle association in steam coals, correlation with removal by float-sink methods, 4650
 Pyrolysis:
 gas flow through char layer during ablation, simulation, 16197
 gases, effect of chemical state on heat-shield mass, 2265
 Pyrolytic graphite, *see* Graphite.
 Pyrometry, surface temperature mapping with infrared photographic pyrometry for turbine cooling investigations, 10121
 Pyrotechnics, and products not elsewhere enumerated, trade and tariff information, summaries, 4988
 Pyrrone polymers, *see* Polymers and polymerization.
 Pyruvates, responses, biochemical cycle functions, saturation-exursion diving, 922.
 Pyrophyllite, minerals yearbook chapter, 16107

Q

Quacks and quackery, cancer quacks, danger, 14685
 Quadrature components, statistical characteristics of quadrature components of signals reflected from randomly rough surface, USSR study, 7130
 Quail:
 bobwhite, habitat management, 16424
 California, habitat management, 16425
 Qualified areas, 560

Quality assurance:

- Apollo program, review of certain management controls of quality assurance system, GAO report, 7035
- In Contract Administration Services, DoD Contract Management Conference, 1778
- quality and reliability assurance handbook, 12377-378, 16935
- quality program provisions for aeronautical and space system contractors, 11509
- reliability and quality assurance publication, NHB series, 11509

Quality control:

- chart technique, technical inspection manual, 16309
- quality and reliability assurance, technical reports, 557
- tested system for achieving quality control, 10360
- zero defects, quest for quality, 557

Quantity indexes of U.S. agricultural exports and imports, 5528

Quantum mechanics, quantum theory of particle-oscillator collision applied to gas-surface interactions at cryogenic temperatures, 2269

Quantum spin waves, 16610

Quantum theory:

- communication efficiency of quantum systems, 16203
- quantum magnetometry, selections, USSR study, 15961

Quarantine:

- prevent spread of plant pests, 8979
- regulates movement of farm construction equipment, 1515
- see also* subjects.

Quarries and quarrying, dust control in United States, 5934

Quarterly:

NOTE.—For all publications which begin with the word "Quarterly", *see* subject, or name of department, etc., issuing publication.

Quartermasters, Navy quartermaster 1 & C, rate training manual, 17311

Quarters, *see* Barracks and quarters.

Quartz:

- gold-quartz standard QGS-1, establishment, 1960
- mathematical techniques for EPR analysis of S-5/2 ions in C₂ symmetry, application to Fe³⁺ in quartz, 11523
- quartz sand and oolitic aragonite, laboratory comparison under wave action, 10994
- separation from granite, 7215

Quartz crystal, precision of quartz crystal thermometers in heat-of-hydration test, 15665

Quartzite, *see* Dripping Spring Quartzite Formation

Quasilinear theory, *see* Equations.

Quaternary period, geology of Grand and Battlement Mesas area, Colo., 8354

Quatinetz, Max, dispersion-strengthened nickel produced from ultrafine comminuted powders, 16172

Quattlebaum, Charles:

- education and training enactments, 14055
- Federal educational policies, programs and proposals, survey and handbook, 1692

Quayle, R. G.:

- climatological mean probability of penetrable optical path for high intensity, high contrast optical targets, 1840-42
- Africa, maps, 4220
- Eurasia, maps, 4219
- North America, maps, 4222
- South and Central America, Caribbean area, Australia, etc., maps, 4221

Quebec Province, education, 12428

Queijo, M. J., theory for computing span loads and stability derivatives for wings in subsonic compressible flow, 2239

Queja, Irene G., relief, 9390, 13868

Quercus, *see* Oak.

Quest for quality, 5756

Questions and answers: about Air Force, 10523

Quick, James E., fluorocarbon in epoxy plastics, 14747

Quilici, Robert E., axial-dispersion constant pattern kinetics of ion exchange and adsorption columns, 17098

Quimby formation, Quimby and Greenvale Cove formations in Western Maine, 7044

Quinaldine:

- anesthetic for brook trout, lake trout, and Atlantic salmon, 10392
- efficacy as anesthetic for seven species of fish, 10392
- toxicity to selected fishes, 10392

Quinces, blight, 8969

Quinn, James L., relation between effectiveness ratings and selected characteristics of rating dyads, 6402

Quiroz, Roderick S., meteorological rocket research since 1959 and current requirements for observations and analysis above 60 kilometers, 5985

Quitclaims to quiet title, Arizona, 16837

R

R & D in aircraft and missiles industry, 14716

R.E.A., *see* Rural Electrification Administration.

RAA, *see* Renewal Assistance Administration.

Rabbits, processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 508, 10922

Rabies, surveillance, National Communicable Disease Center, quarterly summary, 11624

Raccoon State Forest; lands, deed to Ohio, hearings, 387

Race problems:

- discrimination in housing, progress toward solution of problems (address), 14384
- equal opportunity in housing, bibliography of research, 11268

Federal Aviation Administration nondiscrimination in federally assisted programs, FAA regulations, 12583

HEW and civil rights, 9940

housing conditions in urban poverty areas, 1315

how 5 school systems desegregated, planning educational change, 10986

human resources in school desegregation, planning educational change, 9659

nondiscrimination in public and private employment, equal employment opportunity under Federal law, guide, 13785

path to integration, 583

racism, policy or deadlock (address), 17088

school desegregation—

- Federal role in selected Virginia districts, report, 5245
- technical aspects, planning educational change, 10985

viva la raza, Mexican-American education, search for identity, 5558

voting rights act of 1965, extend, report, 15233

what financial institutions are doing to meet investment and credit needs of ghettos, hearings, 460

see also Discrimination in employment.

Races of man, race, nativity, etc., on death certificate and matching census record, comparability, 10336

Racing, horses temporarily exported for use, multiple customs duties, eliminate, reports, 7897, 10848

Racks, Federal item identification guides, 530, 12356

- Radar:**
 airborne and ground-based radars, detection and presentation of severe thunderstorms, comparative study, 11024
 ambiguities, eliminating by processing staggered pulse trains or spectra, 7379
 antenna, radomes and feeds, USSR studies, 5860
 antiradar camouflage techniques, USSR study, 7138
 artificial ionospheric plasma cloud evolution as studied by HF and VHF radar, 13290
 clutter attenuation analysis, 3737
 detection of nonfluctuating targets in log-normal clutter, 4833
 fundamentals, automatic systems and reliability theory, USSR study, 8498
 instruction handbook, 12997
 median detector for noncoherent distributions, 13299
 microwave radar, scintillation range noise and related phenomena in water profiling, 2349
 monopulse arrays with discrete elements, analysis and synthesis, 4216
 noncoherent detection of nonfluctuating targets in contaminated-normal clutter, 10267
 NRL terrain clutter study, 7381
 planetary radar altimeters, analysis of terrain bias error, 10136
 processing signals with variable pulse repetition frequency, USSR study, 2055
 publications, price list, 8791
 quantitative radar measurements, 1535
 radar and surface mesonetwork data analysis of structure and movement of severe thunderstorms of Apr. 3, 1964, 6911
 radar-computed rainfall compared with observations from a dense network of rain gauges, 10520
 radar-equipped merchant ships, collisions, study, and preventive recommendations, 14720
 theory and practice, inquiries, USSR study, 7133
 transmitting video signal from coastal radars, USSR appraisal of method, 8527
 upwind-downwind-crosswind sea-clutter measurements, 14748
 Radar display systems, see Display systems.
 Radar interference, electromagnetic interference characteristics, measurement, military standard, notice, 1789
 Radar station, USSR, coastal possible use of graphecon in information-transmission systems, 7149
 Radar tracking, electronic satellite observations, preprocessing procedures, 1011
 Radeke, Robert E., soil survey, Washabaugh County, S. Dak., 13447
 Radial flow, see Flow.
 Radial saw, see Saws.
 Radiance, limb radiance calculation approach for model atmospheres containing horizontal gradients of temperature and pressure, 17242
 Radiant energy:
 energy absorption coefficients, photon cross-sections, and attenuation coefficients from 10 kev to 100 GeV, 14667
 field emission energy distributions, molecular vibration spectra, 16174
 transfer measurements in air, 16124
 Radiant flux, see Flux.
 Radiation:
 accident cases, emergency handling of, 11966-969
 atlas of TIROS VII monthly maps of emitted radiation in 8-12 micron atmospheric window over Indian Ocean area, 10106
 atomic transition probabilities, sodium through calcium, 17263
 Radiation—Continued
 attenuation and backscattering of infrared radiation by ice fog and water fog, 11932
 Bikini Atoll, May 1967, external radiation levels, 3798
 blunt-body stagnation-region flow with nongray radiation heat transfer, singular perturbation solution, 1148
 calculation of organ and tissue burdens and doses resulting from acute exposure to radioactive aerosol, using ICRP Task Group report on human respiratory tract, 5157
 changes in minority carrier lifetime in silicon and gallium arsenide resulting from irradiation with 22- and 40-MeV protons, 6000
 characteristic of aperture-limited dominant beam mode of lens-type beam waveguide, 3740
 chemical reactions of olefins with methanethiol and with methylsilanes and of dimethylamine, 5159
 chemical stabilization of uranium tallings at Tuba City, Ariz., 14552
 coefficients of right-angle cruciform slot antennas with allowance for their reciprocal effect, possibility of measuring, USSR study, 15919
 commercial irradiation of shellfish with portable shipboard irradiator, final report, 7693
 control for health and safety act of 1968 administration—
 annual report, 10694
 hearings, 12233
 cutting oils employing radiation, microbial inhibition, cost analysis, 7691
 detection of geomorphological features over northeast Africa by satellite radiation measurements in the visible and infrared, 2219
 District of Columbia radiation protection act, hearings, 12212
 doses—
 and short-term effects on vegetation from close-in fallout, 13707
 supralethal, monkeys, behavioral and physiologic responses, 1542
 electronic products radiation hazards, review, hearings, 12233
 exposure experience, 1943-67, Atomic Energy Commission, 5188
 external radiation levels on Bikini Atoll, May 1967, survey, 3798
 fishery products, shipboard irradiator studies, final report, 5174
 fission spectrum, effect of head versus trunk on learned behavior in monkey, 1544
 food irradiation—
 AEC contractors' meeting, 3797
 preservation of freshwater fish, annual report, 5180
 hemodynamic changes in individuals working under microwave irradiation, USSR study, 12932
 high-current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory of equilibrium and stability, 15062
 Infrared spectral irradiance measurements in space environment simulator, 11449
 errata, 14604
 inviscid radiating shock layers about spheres traveling at hyperbolic speeds in air, 10157
 irradiated polyethylene memory materials, investigation of basic properties, 16123
 Irradiation—
 550° F, response of pressure vessel steel and weldments, effect of residual elements, 6150
 fruits and vegetables, 5149

Radiation— Continued
 irradiation—continued
 relative resistance of gerbils and rats to acute cobalt-60 irradiation, 10533
 TRIGA pulse irradiation, optical absorption and fluorescence in fused silica during, 1015
 isotopes and radiation technology, quarterly technology progress review, 3013
 long-wave, and albedo atlas of world maps, 1837
 measurements of radiation effects of American high altitude thermonuclear burst Starfish aboard Kosmos-6 satellite, USSR study, 8505
 medical and dental radiation protection, regulations, standards, and guides, annotated bibliography, 13344
 150-Mev proton irradiation in rhesus monkeys, early effects, 3698
 microwave—
 attenuation for paths through atmosphere, 13279
 transfer in atmosphere, transactions of Milan Geophysical Observatory Im. A. I. Voyeykov, 13150
 mortality of rodents under hypobaric-hypoxic conditions, 11902
 natural radiation environment, 7721
 NERVA control drum actuator irradiation test program, 13122
 nuclear—
 effect at cryogenic temperatures on tensile properties of titanium and titanium-base alloys, 16186
 radiological emergency procedures for non-specialist, 5190
 survival preparedness for rural areas, programed instruction, 5667
 use in preparation of optical maser materials, investigation, 5162
 Operation Hénre, distribution of radiation from 14 MeV neutron source in and near structures, 9063
 optical radiation, flight measurement of, from shock-heated air by using a Trailblazer II vehicle, 2242
 pasteurization—
 fresh meats and poultry, 5151
 Gulf shellfish, 190, 16625
 meat under centralized cutting conditions, cost-benefit analysis, 16624
 Pacific crab and flounder, annual report, 5173
 plasma radiation process in astrophysics, 15069
 possible influence of radiation on natural vegetation of uraniumiferous deposits of Cuyo region, 5135
 primate equilibrium platform in radiation environment, research, 1545
 protection—
 particle accelerator safety manual, 6192
 past, present and future (remarks), 13722
 podiatrist and patient, 2426
 radioprotection with 2-(1 decylamino) ethanethiosulfuric acid in the rhesus monkey, 3709
 radiating—
 gray gases, temperature distributions, simple equations for calculating, 10141
 nonadiabatic, inviscid flow over blunt body, method of integral relations, solution for, 17230
 radiation—
 field in air due to distributed gamma-ray sources in ground, 186
 from lasers and television receivers, microwaves and ultraviolet radiation, regulations standards and guides, bibliography, 8803
 induced polymerization and copolymerization of unusual monomers, 13717

Radiation— Continued
 radiation—continued
 pasteurization process, application to Pacific crab meat and flounder, significance of *Clostridium botulinum* type E, 7708, 7711
 resistant animals, selection, 10526
 ventilation relationships in 6 underground uranium mines, 11377
 radiation shielding for architects, fundamentals of—
 analysis, 267
 application, 268
 planning, 266
 radiative and convective heating during atmospheric entry, 1007
 radiopasteurized seafoods chemistry, report, 5175
 radio-resistance, virulence, and culture characteristics of certain pathogenic bacteria, effect of repeated treatment with gamma rays, final report, 7686
 radiosensitivity in primates, stress response as predictor, 6419
 resistance of cylindrical shells, 17203
 resolution changes in lithium-drifted silicon semi-conductor detectors irradiated with 0.5, 1.0, 2.0, and 3.0 MeV electrons, 1118
 safety recommendations for X-ray diffraction and spectrographic equipment, 6193
 satellite radiation measurements, of atmosphere's geopotential height distribution, statistical estimation, 6921
 scattered from plasma, feasibility of detecting, 16154
 shock layer radiative transport, ablation product absorption and line transitions, effect, 5974
 solutions of blunt-body stagnation-region flows with nongray emission and absorption of radiation by time-asymptotic technique, 4755
 spatial, degradation of multiplier phototubes exposed, 7238
 standards for uranium mining, hearings, 9244
 submarine irradiance measurements in eastern tropical Pacific, methods used by Scripps Tuna Oceanography Research Program, 5302
 technique to infer atmospheric water-vapor mixing ratio from measured horizon radiance profiles, 11467
 terrain effects on antenna radiation patterns, analysis of scattered fields, 11026
 thermal and radiation shielding of reactor vessel, USSR study, 12952
 thermal neutron flux perturbation effects in cylinders, predictive equations, 2249
 thermal radiative properties data, comprehensive program for compilation and analysis, 16138
 USSR national radiation and organism conference, 2088
 X-irradiation at 200 rads per minute to whole body and trunk only, behavioral and circulatory responses, 3710
 see also Alpha particles—Blackbody—Cosmic rays—Gamma rays—Infrared rays—Ionizing radiation—Radiance—Radioprotective agents—Shielding—Solar radiation—Thermal radiation—Ultraviolet rays—X-rays.
 Radiation biology, see Radiobiology.
 Radiation chemistry, see Radiochemistry.
 Radiation detection instruments:
 patrol instrument registration of primary cosmic radiation, USSR study, 853
 see also Scintillation counters.
 Radiation doses, see Radiation.
 Radiation emission:
 control, electronic products, annual report, 10694
 electronic products radiation hazards, review, hearings, 12233

Radiation environment, *see* Environment.
 Radiation exposure, *see* Radiation—Radiobiology.
 Radiation illness, antimetabolites in treatment and prophylaxis, USSR study, 5814
 Radiation injuries, response of specific glucocorticoid-mediated glycoprotein (alpha-2-GP) to irradiation injury, 9007
 Radiation monitoring, thermal flux monitor at high temperatures, use of tungsten-184, 7253
 Radiation Research, Center for, *see* Center for Radiation Research.
 Radiation sickness, *see* Radiation illness.
 Radiation transfer, atmosphere, on plane parallel representation, 6149
 Radiators:
 caps, Federal Item Identification guide, 6833, 16913
 transfer functions for radiator dynamics in SNAP-8 system, 2246
 Radiators (spacecraft):
 comparison with Brayton cycle magnetogasdynamic space-power generation systems, 6022
 low-temperature, emissivity coatings, 16136
 Radin, R. J., calculation of retarded electric field for arbitrary charge and current distribution, 11564
 Radio:
 aids, Pacific and Indian Oceans area, 10237
 developments, USSR study, 2095
 inadequacies of Soviet radio terminology discussed, 15958
 publications, price list, 8791
 radio science (periodical), 3362
 self-instructional course for effective use, 11195
 see also Radio communication—*also* headings beginning Radio—*also* subjects.
 Radio apparatus and appliances:
 radio data link system M-1, instructions for operation, 1831
 radio equipment producing mutual interference in ultra-short wave band, determination of spatial and frequency separation, USSR study, 7146
 Radio astronomy:
 future surveyed, USSR, 2049
 interferometer experiment, optical simulation, 16156
 Radio broadcast technicians, examination announcement, amendment, 5247
 Radio broadcasting:
 agreement with—
 Mexico, 10824
 text, 7994
 applications, FCC, reports, 2826
 broadcast actions, reports, 2826
 call signs, new or modified, FCC reports, 2826
 emergency broadcast system, basic plan, 260
 experimental auxiliary, and special services, FCC rules and regulations, 2830
 facilities, construction, authorization, extend, hearings 8058
 fairness doctrine of FCC—
 legislative history, staff study, 6721
 report, 9304
 marine weather services, Weather Bureau, 9731
 occupations, employment outlook, 4587
 programs, copyright, general information, 10931
 Public broadcasting act of 1967—
 amend—
 hearings, 10796
 reports, 8049, 15259
 authorizations, extend, hearings, 8058
 services, FCC rules and regulations, 2830
 survey of political broadcasting, 1966,
 primary and general electric campaigns, 12605

Radio broadcasting—Continued
 weather aids, 17304
 see also Radio stations—Radio transmissions—*also* subjects.
 Radio communication:
 amateur service, FCC rules and regulations, 2833, 15697
 applications, FCC, reports, 2826
 aviation, public safety, industrial, and land transportation services, FCC rules and regulations, 2832
 citizens radio service, FCC rules and regulations, 2833 15697
 domestic, public services, FCC rules and regulations, 2834
 experimental services, FCC rules and regulations, 2829
 industrial, scientific, and medical services, FCC rules and regulations, 2829
 international fixed public services, FCC rules and regulations, 2834
 laws of United States, compilation, 353
 overwater line-of-sight fade measurements at 37 GHz, 8761
 partial revision of radio regulations, Geneva 1959—
 and final protocol, Maritime Mobile Service, 6286
 with final protocol, report, 438
 public safety, industrial and land transportation radio services, recommended operating techniques and procedures manual, 5601
 radio bridge, Earth-Moon-Earth, 4759
 radiotelegraph carriers, uniform system of accounts, FCC rules and regulations, 1860, 2836
 relationship between complex-and envelope-covariance for Rician fading communication channels, 2224
 safety and special radio services, FCC applications and actions, reports, 2826
 telecommunication facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement with Australia, 8889, 16472
 treaty matters, FCC rules and regulations, 2829
 Radio direction finding, infrared systems for detection, direction finding and automatic tracking of moving targets, USSR study, 2061
 Radio engineering, microelectronic equipment, components for functional synthesis, USSR study 15940
 Radio equipment, *see* Radio apparatus and appliances.
 Radio facility charts, *see* Maps and charts.
 Radio frequencies:
 allocation, and its effect on small business—
 hearings, 1710
 report, 6645
 allocation, spectrum problems and impact on small business, hearings, 15333
 allocations, FCC rules and regulations, 2829
 devices, FCC rules and regulations, 2829
 frequency-time broadcast services, WWV-Fort Collins, Colo., chronology, 1182
 interference experiment design for applications technology satellite 11438
 measurements in NBS Institute for Basic Standards, 13159
 NBS frequency and time broadcast services, radio stations, WWV, WWVH, WWVB, WWVL, 11519, 14670
 spatial and frequency separation between radio equipment producing mutual interference in ultrashort wave band, determination, USSR study, 7146
 transmission characteristics—
 candidate ablation materials for planetary-entry-vehicle heat shields, 2235
 using ablation materials, 1102

Radio frequencies—Continued
transmission loss atlas for select aeronautical service bands from 0.125 to 15.5 GHz, 12567

Radio frequency allocation, *see* Radio frequencies.

Radio frequency modulation, broadcasting stations of world, 4293

Radio in navigation:
aids—
Atlantic and Mediterranean area change, 6129
Pacific and Indian Oceans area, 2337

Radio interference:
experiment design for applications technology satellite, 11438
spatial and frequency separation between radio equipment producing mutual interference in ultrashort wave band, determination, USSR study, 7146

Radio interferometers, *see* Interferometers.

Radio measurements, technique for improving accuracy of air-to-ground radio distance measurement systems, 9724

Radio operators:
amateur, alien, agreement authorizing operation in U.S. and—
Barbados, 1450
Indonesia, 8894
Ireland, 2495
Monaco, 7504
Sweden, 13483
commercial, FCC rules and regulations, 2828
radio operator composite, revision and standardization, 10505
radioman 1 & C, rate training manual, 16313
transmitter and receiver operator and maintenance technician:
examination announcement, 10631
amendment, 7764

Radio-physical studies of evaporation, 1966–67, at Lake Hefner, 12571

Radio physics, *see* Radiophysics.

Radio programs, *see* Radio broadcasting.

Radio propagation, *see* Radio waves.

Radio radiation, *see* Radiation.

Radio ranges, maintenance of L/MF range equipment, 4248A, 12594

Radio receivers, *see* Receivers (radio).

Radio service technicians, employment outlook, 4561

Radio services, *see* Radio communication.

Radio signals, signal searching and ground reflection, USSR study, 2065
see also Signals.

Radio spectrum, *see* Radio frequencies.

Radio stations:
agreement with Mexico, 10824
AM-FM broadcast financial data, 6941
amateur alien, agreement authorizing operation in U.S. and—
Indonesia, 8894
Ireland, 2495
Monaco, 7504
Sweden, 13483

broadcasting stations of world—
amplitude modulation—
indexed by country and city, 4291
indexed by frequency, 4292
frequency modulation, indexed by country, city, frequency, 4293
television, indexed by country, city, frequency, 4294
coastal, United States and foreign, accepting ships weather observation messages, 10454
maritime services on land, shipboard, etc., FCC rules and regulations, 2831
telecommunication, pre-sunrise operation of certain standard (AM) radio broadcasting stations, agreement with Canada, 7508

Radio stations—Continued
VHF communications between synchronous satellite relay and earth ground stations, solar effects, on 8618
WWV-Fort Collins, Colo., frequency-time broadcast services, 1182
WWV, WWVH, WWVB, WWVL, NBS frequency and time broadcast services, 11519, 14670

Radio telephone, announcer, operator, 3d class operator permit with broadcast endorsement, special study guide, 16986

Radio telescopes, large low-frequency orbiting radio telescope, 1020

Radio transmissions:
non-compulsory radio fixes, 11922–923
United States and foreign coastal radio stations, accepting ships weather observation messages, 10454

Radio waves:
computer routines for synthesizing ground backscatter from three-dimensional raysets, 14165
ground wave propagation in normal and ionized atmosphere, 14166
Loran-C, D phase corrections over irregular, inhomogeneous terrain, simplified computer methods, 12570
137-MHz, transmitted from ATS-1, electron-content variations and change rates obtained by measurement of Faraday rotation, 11566
propagation, measurements over irregular terrain in 76-to-9200-MHz range, analysis, 12569
short term radio propagation forecasts for southeast Asia, 6915
ultra-short wave band determination of spatial and frequency separation between radio equipment producing mutual interference, USSR study, 7146
VLF effective ground conductivity map of Canada and Greenland with revisions derived from propagation data, 10269
see also Microwaves.

Radio weather aids, 17304

Radioactivation analysis:
modern trends in activation analysis, conference proceedings, 11521
using fire assay for radiochemical separations, in determination of gold in geological materials, 739

Radioactive isotopes, *see* Isotopes.

Radioactive substances, radiological emergency procedures for non-specialist, 5190
see also names of radioactive minerals, etc.

Radioactive tracers, radioactive sediment tracer tests, Houston Ship Channel, Houston, Tex., 5371

Radioactive waste disposal:
chemical stabilization of uranium tailings at Tuba City, Ariz., 14552
handling of radioactive wastes at Soviet atomic power stations, USSR study, 12895
nature, management and research, 7722
no longer hazardous, USSR study, 12899
radioactive waste dilution in Clinch River, eastern Tennessee, 1964
waste materials, dumping into oceans, international implications, hearings, 9346

Radioactivity:
bubble chambers for low level counting, basic development and applications, final report, 13697
common laboratory instruments for measurement, report, 2415
fallout—
Cabriolet, ecological and environmental effects, 13707
gamma dose rates at Rongelap Atoll, 5182

Radioactivity—Continued

- fallout—Continued
 Health and Safety Laboratory program quarterly summary reports, 187, 5154.
 7683, 13694
 appendix, 188, 5155, 7684, 13695
 protection for hospitals, 7419
 fallout shelters—
 above ground home, 16676
 analysis, national directory, supplement, 261
 apartment buildings, design techniques, 3871
 in terminal buildings, 9739
 shelter design and analysis, change, 10622
 technical reports, 265, 15135
 technical standards, 10621
 HUD aids for fallout shelter development, 16677
 pebble bed chemical reactor system, development, phase 2 report, 13703
 radiogenic heat production and heat flow, consequence of thorium, uranium, and potassium in igneous rocks of Boulder batholith region, Mont., 15805
 special cloud content studies, Cabriole project, 16627
 terrestrial, airborne measurements as aid to geologic mapping, 1965
 upper atmosphere, study by means of balloons, agreement with Australia, 11723
see also Radiation.
 Radioastronomy, *see* Radio astronomy.
 Radiobiological Laboratory, Beaufort, N.C.: Commercial Fisheries Bureau—
 fiscal year 1968, progress report, 7813
 research facilities, 5298
 Radiobiologiya (periodical):
 translation, 3789
 Radiobiology:
 behavioral and circulatory responses to x-radiation at 200 rads per minute to whole body and trunk only, 3710
 dose rate effect on LD 50/30 in mice exposed to cobalt-60 gamma irradiation, 3704
 effect of fission-spectrum radiation on head versus trunk on learned behavior in monkey, 1544
 large area proton beams for radiobiologic research from NASA-SREL synchrotron, 6416
 modified ⁵⁹Fe ferrokinetic procedure, 13632
 pharmacodynamics of radioprotective drug, 2-(1-decylamino) ethanethiosulfuric acid, 15020
 radiobiological experiments on Cosmos-100 biosatellite, USSR study, 865
 radiosensitivity in primates, stress response as predictor, 6419
 research project, Radiological Research Laboratory, Columbia University, annual report, 13700
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radio-protectant in rodents and primates, 3716
 USSR periodical, translations, 3788-92, 5141, 13685, 16603-604
 Radiochemical Analysis Section, activities summary, 4767
 Radiochemistry:
 adsorption of carbon-14-labeled stearic acid on soda-lime glass, 13301
 compounds for radiation protection, survey, 13629
 history of Soviet radiochemistry, USSR study, 12889
 radiochemical separation, neutron-activation analysis using fire assay for determination of gold in geologic materials, 739
 silicon, 3800
 Radioecology:
 research in Mururoa Atoll region, Tuamotu Islands, USSR study, 8506

Radioecology—Continued

- Russian radioecology, bibliography of Soviet publications with citations of English translations and abstracts, 3808
 2d national symposium, proceedings, 7675
 Radiographs, reference radiographs for steel welds, military standards, 544, 5504-5
 Radiography, radiographic panoramic survey, teeth of basic airmen, 11905
 Radioimmunoassay:
 charcoal radioimmunoassay, role of insulin-inhibitory factor in human blood, 9008
 coated charcoal, for plasma insulin, 6420
 Radioiodine, *see* Iodine isotopes.
 Radiotopes, *see* Isotopes.
 Radiological defense, planning and operations guide, 3870
 Radiological health, *see* Health.
 Radiological Research Laboratory, Columbia University, annual report on research project, 13700
 Radiology:
 diagnostic radiology, status of research, 1200
 radiological emergency operations—
 instructor's manual, 9072
 student's manual, 9073
 radiological emergency procedures for nonspecialist, 5190
 radiological health data and reports (periodical), 3363
 Radiology Training Committee, report on status of research, 1200
 Radiomen, *see* Radio operators.
 Radiometers:
 absolute, for use in ballistic-range and shock-tube experiments, 16157
 measurements of water surface temperature, USSR study, 7134
 radiometric measurements of atmospheric attenuation at wavelengths from 75 centimeters to 2 millimeters, review, 10104
 radiometric techniques applicable to measurement of solar activity and atmospheric attenuation at millimeter wavelengths, 10155
 use in thermal studies of spacecraft, 1136
 Radiometry, microwave radiometric techniques for reentry plasma measurements, laboratory study, 13087
 Radionuclides:
 atoll soil types in relation to fallout distribution, 1583
 in bottom sediment of Clinch River, eastern Tennessee—
 distribution, 7050
 inventory, 11244
 transport of radionuclides by streams (series), 1964, 7050, 11244
 Radiophysics:
 radiophysical investigations of Venus, 16208
 research project, Radiological Research Laboratory, Columbia University, annual report, 13700
 Radioprotective agents:
 compounds for radiation protection, survey, 13629
 idylalkylamines as radioprotectants, 3713
 radioprotection of—
 primates with 2-(1-decylamino) ethanethiosulfuric acid in dimethyl sulfide, 13628
 rodents with papain, 10532
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant in rodents and primates, 3716
 Radios, *see* Receivers (radio).
 Radiosensitivity, perennial shrub, certain species, based on study of nuclear excavation experiment, Palanquin, with other observations of effects on vegetation, 9064

- Radiosondes :**
 data, objective detection and correction of errors, 612
 northern hemisphere, compatibility of data at stratospheric levels, 16971
 observations, Federal meteorological handbook, 307, 7797
- Radiotelephone, see** Radio telephone.
- Radotracer** procedures for mechanistic studies in air pollution research, 16103
- Radium :**
 contamination in aircraft instrument repair facilities, evaluation, 14790
 Georgia Radium Management Project, 11613
 leak test, collection of articles, 13353
 New Jersey cases, epidemiological follow-up, progress report, 3802
 radium incidents, review and analysis, 6190
 radon progeny, determination of, in air from alpha activity of air samples, 5152
 use, in consumer products, 6188
 water load, at selected gaging stations, 14371
- Radok, Uwe,** deposition and erosion of snow by wind, 1573
- Radomes, radar antennas, radomes and feeds, USSR studies,** 5860
- Radon :**
 decay products, interaction with aerosols, 10254
 progeny, determination of, in air from alpha activity of air samples, 5152
- Radon isotopes, radon 222 near uranium tailings piles, evaluation,** 17333
- Radtke, Arthur S.,** micromineralogy of galena ores, Burgin mine, East Tintic district, Utah, 5722
- Raff, R.A.V.,** grafting of organic polymers onto inorganic substances, 191
- Raffo, Peter L. :**
 dynamic strain aging in carbide strengthened molybdenum alloys, 13130
 exploratory study of mechanical properties and heat treatments of molybdenum-hafnium-carbon alloys, 5997
- Rafters :**
 trussed, longtime performance, initial evaluation, 685
 trussed rafters, design criteria, 15827
- Ragin, N. Victoria,** endocrinology index, 2797
- Rags, trade and tariff information, summaries,** 1461
- Ragsdale, Robert G.,** simple equations for calculating temperature distributions in radiating gray gases, 10141
- Rabe, Dewaine H.,** quantity indexes of U.S. agricultural exports and imports, 5528
- Rahn, Ruby A.,** river highway for trade, the Savannah, 14153
- Railroad accidents :**
 all line-haul and switching and terminal companies, summary, 3479
 investigation reports, 6111, 9790-96, 11078-11108, 12626, 15725
 rail-highway grade-crossing accidents, 13391-392
- Railroad Adjustment Board, see** National Railroad Adjustment Board.
- Railroad automobile rack cars, see** Railroad cars.
- Railroad cars :**
 equipment of class 1 railroads, 3149
 railroad automobile rack car aerodynamic drag, economics, 12625
- Railroad crossings :**
 accidents, 13391-392
 grade crossings on high-speed rail line between Washington, D.C., New York City, and Boston, Mass., eliminate, hearings, 13939
 highway-railway grade crossing safety program, 13508
- Railroad employees :**
 craft or class determination of National Mediation Board, 11547
 emergency board report, 8177
 employment outlook, 4588
 hours of service act of 1907, amend to reduce 16-hour maximum limitation for certain employees—
 hearings, 12232
 reports, 13910, 15267
 occupational differences in separation rates, 13389
 railroad retirement and unemployment insurance programs, benefit statistics, monthly, 3131
 retirement act of 1937, etc., amend to continue supplemental annuities, etc., hearing, 12231
 retirement annuities, amendatory legislation, problem areas, GAO report, 719
 service and taxable compensation, 1967, statistical tables, 13390
 wage statistics, class 1 railroads, 3580
 work rules and compensation programs, etc., joint labor-management improvement program, 4272
- Railroad retirement act, see** Railroad employees.
- Railroad Retirement Board :**
 appropriations, 1970, hearings, 9330
 member, nomination of Neil P. Speirs, hearing, 15475
 monthly review, 3141
 quarterly review, 3401
 railroad retirement and unemployment insurance programs, benefit statistics, monthly, 3131
 report, 1968—
 departmental edition, 14823
 document edition 13855
 retirement annuities, amendatory legislation, problem areas, GAO report, 719
 RRB actuarial studies, 13389
- Railroad supplies, Federal item identification guides for supply cataloging, supplements,** 2842
- Railroads :**
 Army rail transport operations, field manual, 6432
 carload cost scales by territories, 12871
 carload waybill statistics, 1965, State-to-State distribution, traffic and revenue, 823
 carload waybill statistics, 1966—
 mileage block distribution, traffic and revenue by selected commodity classes, territorial movement and type of rate, 824
 State-to-State distribution, traffic and revenue, 826, 2046-47, 4428, 5804
 tons of revenue freight originated and terminated by states and commodity class, 825
 traffic and revenue for all commodities, etc., 825
 carriers, schedule of annual indices, revised pages, 4431
 class 1—
 freight commodity statistics, annual report, 5806
 income and balance sheet items, 3425
 motive power and car equipment, 3149
 operating revenues and expenses, 3222, 4429
 operating statistics, 3224
 revenue traffic statistics, 3390
 train and yard service, 3503
 freight service costs, formula for use in determining, errata, 12870
 grade crossings on high-speed rail line between Washington, D.C., New York City, and Boston, Mass., eliminate, hearings, 13939

Railroads—Continued
industry—

operating practices, work rules, and employee compensation program, joint improvement program, report, 4272
 safety problems (remarks), 7365
 interstate commerce act, amend, hearings, 404, 462
 land bridge, fact or fiction? (remarks), 12994
 large, operating revenues and expenses, 3223
 lessors and proprietary companies, transport statistics, 15895
 mergers, western railroad mergers, study, 10436
 metropolitan area, Washington, D.C., pilot transportation study, 1722
 relocating railroad facilities at Federal water resources projects, need to improve policies and procedures, Reclamation Bureau, GAO report, 1949
 schedule of annual indices for carriers, 830
 shopcraft factfinding study, 881
 solid waste disposal using rail haul techniques, feasibility, study, 1722
 surface track, classification definitions, 2378
 TOF C contracts with freight forwarders, permit, amend interstate commerce act, hearings, 462
 see also Electric railroads—Railroad employees—Refrigerator cars.

Rails (birds):

hunting, possession, transportation, importation, 1969-70, Federal regulations governing, 13461

king rail, natural history, 14883

Railway crossings, see Railroad crossings.

Railway Express Agency, Inc., transport statistics, 15895

Railway postal clerks, field service employees transferred to new duty positions, provide fringe benefits, hearing, 9489

Railways, see Electric railroads—Railroads.

Rain:

electrification processes in warm rain clouds, 9720

nutrient cycling by throughfall and stemflow precipitation in 3 coastal Oregon forest types, 4326

radar-computed rainfall compared with observations from dense network of rain gauges, 10520

rainfall rate sensors, 11023

see also Precipitation.

Rain gages, dense network of rain gauges, observations compared with radar-computed rainfall, 10520

Rainer, John D., psychiatry and the deaf, 2451

Rainfall, see Rain.

Raised floor systems, 3778

Rakich, John V., method of characteristics for steady 3-dimensional supersonic flow with application to inclined bodies of revolution, 17218

Raleigh, Henry D., reactor safety, literature search, 13715

Raleigh, Stephen M., Jr., marketing woody ornamentals, practices and trends of nurseries, 12412

Raleigh, N.C., area wage survey, 4601

RAM (radio attenuation measurements) project, see Attenuation.

Raman spectrum, see Spectra.

Ramasastri, Jayaram, magnetospheric duct propagation research using Alouette-2 top-side sounder observations, 14612

Ramey, James T.:

remarks—

Feb. 15, 1968, 6479

Nov. 14, 1968, 207

Nov. 18, 1968, 6478

May 1, 1969, 9083

Ramey, James T.—Continued
 remarks—continued

June 2, 1969, 10574

June 30, 1969, 10571

July 28, 1969, 13722

Sept. 11, 1969, 13725

Oct. 11, 1969, 16632

Oct. 15, 1969, 16633

Ramey, R. L., thin film iris, 11414

Ramps, loading, for cattle, farm building plan, 49

Ramsay, Leah W., institutions of higher education, index by State and congressional district, 15633

Ramseyer rule print of foreign assistance act of 1968, 398

Ramspott, L. D., preshot geophysical studies of Cabriole nuclear crater site, 16626

Ranano, Romeo de la Torre, relief, 13836

Ranchers, see Stockmen.

Ranches, Crow Indian Reservation, cattle

ranching operations, 12820

Randall, C. A., Jr., investigation of effect of fluid injection on skin-friction coefficient of incompressible turbulent boundary layer, 9057

Randall, Charles E., so you want to be a forester?, 11196

Randhawa, Jagir S., relief, 4028, 13866, 16725

Randle Cliff, amplitude scintillation at, derived from ATS-1 transmissions, 10261

Randolph, J. R., bibliography of hydrology, 1964, of United States and Canada, 7060

Randolph, John N., Jr.:

establishing business in New Zealand, 5292

market factors in Australia, 10657

Randolph County, Ark.:

community profile, 15597

water resources, 11253

Randolph County, W. Va., coal, carbonizing

properties, 5958

Random processes, see Probabilities (mathe-

matics).

Raney, John P., identification of structural systems by use of near-resonance testing, 6016

Range finders, range design, civil engineering report, 6535, 10636

Range finding, frequency method, USSR study, 15979

Range lands:

and wildlife habitat publications issued in 1967 by Forest Service research personnel and cooperators, 7007

Crow Indian Reservation, Mont., soil and range resources inventory—

Garvin Basin, 12822

Pryor Mountain area, 12821

Ozark range and wildlife plants, 5027

Project Skywater, special park range co-

operative experiment, 14827

publications, price list, 10292

range ecology and management, 14278

range environmental management, 14279

seeding with pellets, evaluation, 9866

semidesert range in west-central New Mex-

ico, detrimental effect on Russian thistle,

1917

southern, management, bibliography, 8316

western range and livestock, monthly re-

port, 3602

Range-management specialists, managers,

conservation occupations, 4492

Rangelands, see Range lands.

Ranges (radio), see Radio ranges.

Ranges (stoves), see Stoves.

Rangiroa Atoll, reconnaissance geomorphol-

ogy, 8851

Rank, job evaluation and ranking in Federal

Government, report, 5359

Rankine cycle:

comparison with Brayton cycle magneto-

gasdynamic space-power generation sys-

tems, 6022

magnetohydrodynamic space-power genera-

tion systems, effect of electrothermal

instabilities, 16195

- Rann of Kutch, *see* India.
- Raplal, A. S., preparation and characterization of slush hydrogen and nitrogen gels, 10178
- Rapid transit, *see* Local transit.
- Rapton, Avra, socio-economic profile of 1965 farm wage force, 8153
- Rare earths, minerals and metals, minerals yearbook chapter, 16096
- Rasch, Philip J.:
effect of protein dietary supplementation on physical performance of Marine Corps officer candidates, 16058
evaluation of physical training platoon, Officer Candidate School, Quantico, Va., 14506
reevaluation of physical fitness test, 14514
serum uric acid levels and leadership in Marine Corps, 14508
- Rate conferences and national interests, 640
- Rate training manuals, 10244, 10246-47, 11562, 16310, 16312-313, 17310-311
- Rates, *see* Air carriers—Electricity—Freight rates.
- Rathbun, R. E., response of laboratory alluvial channel to changes of hydraulic and sediment-transport variables, 15802
- Rather, John C., conversion of retrospective catalog records to machine-readable form, 11361
- Ratings:
job performance ratings from trait ratings for aircraft mechanics and administrative airmen, comparing prediction, 11888
Navy, training manuals, 11562, 16310, 16312-313, 17310-311
Navy training publications for advancement, list, 11563
relation between effectiveness ratings and selected characteristics of rating dyads, 6402
- Ratio analysis diagram interpretations of fracture toughness characteristics of maraging steel welds in range from 150- to 200-ksi yield strength, 11570
- Rations:
aerospace, computer programing, 6418
civil defense shelter rations, storage stability, annual reports, 3759
- Ratios of steady-state responses to various transient responses, both having equal maximum excitation levels, 4750
- Rats:
conscious, exposed to acute hypoxia, effects on cardiac output and regional blood flow, 2131
domestic, control, training guide, 14784
effect of rapid eye movement (dreaming) sleep deprivation on retention of avoidance learning, 8580
liver slices, lactic acid production, effects of pH, CO₂, and buffering systems, 13631
psychotomimetic agents, comparison of effects, USSR study, 4443
quantitative changes in nuclear RNA in cerebellum and in cerebral cortex of rats in different stages of conditioning, USSR study, 8507
rat heart, effect of monoamine oxidase and diamine oxidase on norepinephrine and histamine, 11903
resistance to acute cobalt-60 irradiation, 10523
white, suitability for sub-orbital studies of behavior in gravity field, investigation, 2206
see also Rodents.
- Ratts, James C., mineral resources of Blue Range primitive area, Greenlee County, Ariz., and Catron County, N. Mex., 14328
- Raven, Peter H., revision of genus *Camissonia* (Onagraceae), 4795
- Raw materials:
program, AEC authorizing legislation, 1970, hearings, 9243
sanitation guidelines, (poster), 11151
- Rawah Wilderness, general information, 8289
- Rawcliffe, Bethany V., cancer chemotherapy reports part 2, program information, 7341
- Rawlins, Edward W., relief, 13988
- Rawson, D. E., Gasbuggy, postshot geologic investigations, 7699
- Ray, Dorothy J., graphic arts of Alaskan Eskimo, 14402
- Ray County, Mo.:
community action program, effectiveness and administration, GAO report, 11207
Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 11213
- REA, *see* Rural Electrification Administration
- Reaction kinetics, *see* Kinetics.
- Reaction wheels, brushless dc torque-driven, for spacecraft attitude control, 13083
- Reactions (chemical), *see* Chemical reactions.
- Reactions (physiological), *see* Physiological reactions.
- Reactivity:
and interaction of acids, spectral characteristics, USSR study, 836
changes of fast reactor core due to elastic-plastic strain and creep, 4738
- Reactor Development and Technology Division, progress in reactor physics, summary of present and anticipated work, 5185
- Reactor fuel elements:
fission-product gas pressure in uranium dioxide ceramic fuel elements, estimation, 2223
fuel-element fission product leakage at NASA Plum Brook Reactor, causes, measurement and elimination, 14622
vented nuclear fuel elements for space power reactors, calculation of fuel loss, 1128
- Reactor fuels:
nuclear fuel cycles, safeguards systems analysis, 16631
reactor and fuel-processing technology, quarterly technical progress review, 3364
sources of nuclear fuel, 3820
uranium used as feed for thermal power reactors, effect of uranium-236 and neptunium-237 on value of, 189
very-high-burnup vapor-transport fuel-pin concept for long-life nuclear reactors, 1085
see also Fuel.
- Reactor safety, *see* Safety of life.
- Reactors (atomic):
advanced converter reactors, evaluation, 10568
alternate coolant fast breeder reactors, evaluation, 9076
built, being built or planned in U.S., 195
CEMA symposium on atomic power stations with fast reactors, USSR study, 12912-913
cost-benefits analysis, U.S. breeder reactor program, 9077
cylindrical reactor fuel pin for clad stress caused by fission gases, analysis, 7306
designs of experiments as doubly telescoping sequences of blocks with application to nuclear reactor experiment, 13137
externally fueled thermionic reactor concept, uranium dioxide vent loss, 1134
fast reactors systems, materials, and components, national topical meeting, proceedings, 5145
Federal item identification guides for supply cataloging, supplements, 2845
gas-cooled fast reactors, evaluation, 10569
La Crosse boiling water reactor, hearings, 13847
light water breeder program, AEC authorizing legislation, 1970, hearings, 9243

Reactors (atomic)—Continued

LMFBR, liquid metal fast breeder reactor, 1000 MWe, follow-on study, task reports, 10356-567, 11962-963, 13686-689, 13691, 16621-622
 materials—concerning Hallam, Elk River, Pathfinder, BONUS, and Piqua reactor projects, hearings, 13847
 quarterly technical progress review, 3365
 NASA Plum Brook Reactor, causes, measurement, and elimination of fuel-element fission product leakage, 14622
 nuclear light bulb reactor, initial radio-frequency gas heating experiments to simulate thermal environment, 8591
 nuclear reactor facilities, summary of current seismic design practice, 13718
 nuclear reactor operators performance, 5161
 nuclear reactors built, being built, or planned in U.S., 6470, 13716
 nuclear supply industry, present and future of U.S. (remarks), 5189
 nuclear thermionic space power system concept employing heat pipes and rod control, 10152
 nuclear, very-high-burnup vapor-transport fuel-pin concept for long-life, 1085
 1-megawatt reactor design for Brayton-cycle space power application—neutronics design, 4740
 thermal analysis and core design, 4739
 PH-2A reactor pressure vessel, notch ductility and tensile property evaluation, 6140
 plutonium use in ENEL water reactors, results of enquiry into prospects, 1595
 pressure vessels, steels, tensile properties, 2350
 progress in reactor physics, 5185
 pulsed neutron source for unreflected solution reactor up to \$50 shutdown, analysis and experiments, 17235
 radioactive pebble bed chemical reactor system, development, phase 2 report, 13703
 reactivity changes of fast reactor core due to elastic plastic strain and creep, 4738
 reactor—
 and fuel-processing technology, quarterly technical progress review, 3364
 development and technology program, AEC, authorizing legislation 1970, hearings, 9243
 noise analysis in time domain, 9071
 radiation on 22-volt silicon voltage-regulator diodes, effects, 1135
 safety, literature search, 13715
 sodium-cooled, performance evaluation of heat exchangers, 13721
 Siemens and nuclear power stations with pressurized water reactors, 3793
 SM-1A, reactor pressure vessel following in-place annealing operation, notch ductility properties, 1260
 Southwest Experimental Fast Oxide Reactor, dedication (remarks), 9084
 space power reactors, fuel loss from vented nuclear fuel calculation, 1128
 steam-cooled fast breeder reactors, evaluation, 11964
 thermal and radiation shielding of reactor vessel, USSR study, 12952
 thermal powered, effect of uranium-236 and neptunium-237 on value of uranium used as feed, 189
 TRIGA pulse irradiation, optical absorption and fluorescence in fused silica during, 1015
 two-dimensional circulating-liquid-metal-fuel reactor, high-power kinetics, 1073
 use of thorium, civilian nuclear power, 15077

Read before driving, 4774, 16251

Reading:

communicating by language, reading process, conference proceedings, 1188
 elementary centers, Milwaukee, Wis., elementary program in compensatory education, 6869
 intensive reading instructional teams, Hartford, Conn., elementary program in compensatory education, 6870
 let's be practical about reading, 14137
 programed tutorial reading project, Indianapolis, Ind., elementary program in compensatory education, 6872
 right to read, target for the 70's (address), 15641
 this changing world, reading guide for the General Sessions, 7491
 Regents, inorganic salts and compounds, analyzed reagent and reagent grade, 14105
 Real estate:
 accelerated depreciation, tax reform hearings, summary of testimony, 10815
 agents and brokers, employment outlook, 4542
 business, bibliography, 4925
 condemnations of private property for public use, how Federal income tax applies, 5767
 District of Columbia, unsafe improvements, limitation of civil actions for damages, amend code, 12180
 Federal surplus, for health and educational purposes, how to acquire, 7065
 Government owned—
 and leased real property overseas, improvements needed in management by State Dept. GAO report, 15782
 U.S. territories, etc., inventory report, 7957
 leased by U.S. throughout world, inventory report, 9881
 minimum property standards—
 for nursing homes, 8392
 living units, interim revision, 637, 5609, 11064, 12615
 low cost housing, 7070
 multifamily housing, 1866, 5608, 11063, 14206, 15708
 owned by U.S. throughout world, inventory report, 7039
 procedural guide for acquisition of real property by governmental agencies, 4458
 real estate, and land, 1956-66, trends in value, 1317
 real property—
 Defense Department, status report, 14115
 FAA handbook, 8202, 15689
 see also Farms—Mortgages.
 Real property, see Real estate.
 Realigning regional boundaries of certain Federal agencies, 13931
 Reany Creek formation, Marquette County, Mich., 4353
 Receipts and expenditures, see Finance.
 Receivers (radio):
 home-type and automobile, current industrial reports, 12002
 ghome-type radios, Federal item identification guides for supply cataloging, supplements, 2849
 radio receiving sets industry, 1958-66, indexes of output per man-hour, 889
 Receiving clerks, occupations, employment outlook, 4549
 Receptacles:
 deposit and collection, classification definitions, 2377
 wooden, classification definitions, 2376
 Receptionists, employment outlook, 4513
 Recipes:
 apples in appealing ways, 6381
 Armed Forces recipe service, 10552
 lamb in family meals, 7591
 pork in family meals, 7592

INDEX 1969

- Recipes—Continued
 potatoes in popular ways, 5037
 quantity recipes for type A school lunches,
 guides for writing and evaluating, 14992
 seafood moods from Alaska, Washington,
 Oregon, 16714
 vegetables, 11868
- Recirculation effects produced by pair of
 heated jets impinging on ground plane,
 8590
- Reclamation, *see* Reclamation of land.
- Reclamation Bureau:
 appropriations, 1970—
 hearings, 12204
 public works, report, 15298
 Battlement Mesa project, interrelationship
 with resources and management of
 Grand Mesa National Forest, water re-
 source development impact survey re-
 port, 12727
 Bureau of Reclamation progress (periodi-
 cal), 2633
 employees—
 overpayments of salaries, relief, report,
 450
 relief, 10825, 13874, 16722
 engineering research progress report, 4910
 equal opportunity, affirmative program of
 manpower utilization, 14832
 irrigation operation and maintenance bul-
 letin, 3012
 Jensen project, evaluation of impact of
 proposed project, 12656
 library accessions, 3068
 program, recreational opportunities, 11651
 purpose, accomplishments, etc., 13402
 report 1968, statistical appendix, 8834,
 10353
 research reports, 4910, 11652, 14839,
 16392-393
 safety news (periodical), 3370
 safety requirements for construction by
 contract, 1363
 strain gages test programs, application,
 14825
 water from Central Valley project, negotia-
 tion of contracts for, GAO report, 717
 water resources—
 projects, railroad facilities, relocating,
 need to improve policies and proce-
 dures, GAO report, 1949
 research, coordination with Agricultural
 Research Bureau, report of meeting,
 14830
- Reclamation era, water review quarterly,
 3369
- Reclamation of land:
 feasibility of proposals, Interior Dept.
 to investigate, reports, 9416, 12163,
 15261
 Federal projects, 1968, crop report and
 related data, 17362
 statistical appendix, 17363
 land reclamation and irrigation in Soviet
 agriculture, 5818
 lower Colorado River reclamation, 13396
 Oglala Irrigation project, cattle enterprise,
 Pine Ridge Indian Reservation, S. Dak.,
 9949
 private and public ownership, differentia-
 tion, Federal laws, acreage limitation
 amendments—
 hearing, 14039
 report, 16876
 project, recreational opportunities, 11651
 reclamation projects, directory, 4907
 strip mine reclamation after 5 years, 6324
see also Irrigation.
- Reclamation projects, *see* Reclamation of
 land.
- Reconnaissance, *see* Military information.
- Reconnaissance (aerial):
 planetary film reconnaissance system,
 11412
- Reconnaissance (geologic):
 Eagle A-1 and A-2 quadrangles, Alaska,
 9888
 uranium in Connecticut, Maine, Massachu-
 setts, New Jersey, New York and Ver-
 mont, 1950-59 preliminary reports,
 7701
- Reconnaissance (military), *see* Military in-
 formation.
- Record books, *see* Records.
- Record players, *see* Phonographs.
- Recorder tape:
 magnetic, for information interchange
 hardware standard, interchange codes
 and media, 6041
 perforated tape code for information in-
 terchange hardware standard, interchange
 codes and media, 6040
- Recording instruments, photorecording,
 digital temperature monitor, 12699
- Recordings, *see* Sound recordings.
- Recordkeeping requirements and guide to tax
 publications, 4416
- Records:
 Arizona Superintendency of Indian Affairs,
 microcopy, pamphlet to accompany,
 1167
 catalog, conversion to machine-readable
 form, study, 11361
 disclosure of official records and informa-
 tion, by Social Security Administration,
 regulation, 16415
 divorce, where to write, 1358
 employers, kept under Fair labor standards
 act, 7561
 family-farm, 35
 Government departments, etc., disposition,
 reports, 3980, 6643, 7890
 groups in National Archives and Federal
 centers, list, 7314
 investigation of Fort Philip Kearney (or
 Fetterman) massacre, microcopy,
 pamphlet to accompany, 1169
 item logistics data records, standard
 guides for preparation of proposed, etc.,
 6980
 management handbook, 16222
 managing emergency preparedness files,
 Federal vital records program, records,
 management handbook, 8664
 National Archives—
 pension and bounty-land warrant files,
 6030
 regulations for public use, 8662
 papers in Library of Congress—
 Belknap, George E., 16037
 Belknap, Reginald R., 16037
 Callen, John, 2126
 Cushing, Leonard F., 16035
 Luce, Stephen B., 11362
 Selfridge, Thomas O., Jr., 16040
 Selfridge, Thomas O., Sr., 16040
 Sellers, David F., 11362
 Shufeldt, Robert W., 11364
 Snow, Elliot, 16035
 Watson, John, 2126
 papers in Marine Corps Museum, Cochrane,
 Henry C., 16043
 production in legal proceedings, Federal
 aviation regulations, 12583
 retention requirements, guide, 5635-36
 telegrams sent by Secretary of Treasury
 ("XA" series), microcopy, pamphlet to
 accompany, 1168
see also Medical records.—names of de-
 partments, etc.—also subjects.
- Recovery, *see* Spacecraft recovery.
- Recovery of hydrofluoric acid from waste,
 fluosilic acid, 4637
- Recovery zones, for future earth orbital mis-
 sions, effects of cloud cover on selection,
 7288
- Recreation:
 Alaska, and government policies, 14196
 camping, national forests, America's play-
 grounds, 5058

Recreation—Continued
 consumer information, publications, price list, 9863
 equipment, Federal item identification guides for supply cataloging, supplements, 2849
 Federal lands for parks and recreation act of 1969—
 hearing, 9470
 report, 10850
 Flaming Gorge, Ashley National Forest, recreation map, 8277
 Flaming Gorge Reservoir, 1963-65, use patterns, 10398
 improving deteriorated recreation sites, planting grass appears impractical, 9860
 land, people, and recreation in Potomac River Basin, final report, 5755
 loans for recreation enterprises, 7606
 national forest recreation in Nevada, guide, 4300
 opportunities at hydroelectric projects licensed by Federal Power Commission, 11077
 Outdoor—
 appraisal of potentials for outdoor recreational development—
 Benton County, Tenn., 17385
 Henry County, Tenn., 17386
 Hickman County, Tenn., 17387
 Trousdale County, Tenn., 17388
 catalog of research projects in Agriculture Dept. and State agricultural experiment stations and forestry schools, 6819
 education and outdoor recreation, 1274
 estimating recreation use on winter-sports sites, pilot test of sampling procedures, 1936
 Federal areas, requiring entrance and user fees, 1969 directory, 7393
 forest research, bibliography, supplement, 9845
 grants-in-aid manual, 3232, 4836, 7392
 index of selected literature, 6155
 Inyo National Forest, Calif., proposed recreation development at Trail Peak, 673
 outdoor recreation action (periodical), 3231
 safety tips, 53
 trek is on, vacation ideas, list of publications, 10294
 outdoor, water-oriented—
 econometric model for predicting demand, 12409
 socioeconomic factors affecting participation, 8156
 Palsades Reservoir, map, 14280
 problems, programs and policies, 17316A
 program leadership, suggested 2-year post high school curriculum, 14141
 Reclamation's recreational opportunities, 11651
 recreation and wildlife, BLM lands, south-east, Utah, 12988
 regulations governing use of national forest recreation sites and areas, 17016
 room to roam, guide to public lands, 10035
 sites, faucets, 14260
 summer youth opportunity program, Transportation Dept., 1968 annual report, 11751
see also Boating—Recreational areas and demonstration projects.
 Recreation centers, *see* Community centers.
 Recreation workers, employment outlook, 4544
 Recreational areas and demonstration projects:
 Federal recreation areas requiring entrance and user fees, 7393
 Kanikou National Forest, Priest Lake, recreation area, 14268
 Mineral King, planned recreation development, 8282

Recreational areas and demonstration projects—Continued
 national recreation areas—
 Sawtooth Country, concept, 15754
 seashores, lakeshores, parkways, scenic riverways of national park system, compilation of administrative policies, 1216
 Santee recreation project, Santee, Calif., final report, 12662
 solid wastes demonstration grant projects, 1968, summaries, 4901
 winter areas, basic waste characteristics, progress report, 12654
see also names of areas.
 Recruiting and enlistment:
 Air Force, reasons for enlistment, 3675
 Army Materiel Command coordinated recruitment program, annual progress, report, 15054
 Army recruiting & career counseling journal, 3371
 college recruiting, 1968 report, Federal Highway Administration, 11058
 Red alder, *see* Alder.
 Red Canyon, general information, 11288
 Red Dane cattle, *see* Cattle.
 Red oak, *see* Oak.
 Red pine, *see* Pine.
 Red Poll cattle, *see* Cattle.
 Red Rock Lakes National Wildlife Refuge, mammals, list, 1419
 Red Sea:
 lights and fog signals, list, 1245, 7373, 16302
 sailing directions, change, 6120
 Red-shift, *see* Cosmology.
 Redcedar, *see* Cedar.
 Redevelopment (city planning, etc.):
 abstracts of "701" planning reports, 6332, 8927
 area overall economic development programs, guide, 15535
 basic laws and authorities, 9336
 book about space, 4904
 communities of tomorrow (address), 25
 economic development districts authorized under provisions of Public works and economic development act of 1965, status, 14117
 funded redevelopment areas, map, 15533
 Housing and urban development act of 1968, compilation, with related documents, 393
 housing and urban development legislation of 1969—
 hearings, 13922, 14017
 reports, 15297, 15371, 16792
 housing and urban development notes (periodical), 2964
 housing and urban development programs, progress report, 15424
 local public agency letters, 3086
 looking back, and ahead, 779
 psychological dynamics of inner-city problems, seminar, 884
 Public works and economic development act of 1965—
 administration of sec. 702, hearings, 416
 amendments of 1969, hearings, 10802
 public works grant rates in qualified areas under Public works and economic development act, 5517
 science, the good urban witch (remarks), 4391
 selected abstracts of planning reports, 17082
 today's urban problems are everybody's problems (address), 17077
 toward an urban land policy (remarks), 783
 urban and regional development, etc. (address), 27
 urban land policy, selected aspects of European experience, 9948

INDEX 1969

- Redevelopment (city planning, etc.)—Con.
urban planning program guide, policies
and procedures for Federal assistance
under the urban planning program au-
thorized by sec. 701 of the Housing act
of 1954 as amended, 4392
- urban renewal—
benefit-cost applications, summary of
feasibility study, 5750
directories, 1371, 8840
handbooks, 775-777, 1987-92, 3550,
4384-86, 5742, 7071-75, 8393-97,
9946-47, 11262-263, 12811, 15830-
832, 17085
making New Federalism work (re-
marks), 17090
operations under title 1, Housing act of
1949, report, 3382
planning (address), 15824
rehabilitation program, improvements
needed in management by Housing
and Urban Development Dept., GAO
report, 8330
uniform relocation assistance and land
acquisition, hearings, 8074
what is relocation all about, 14391
zoning controversies in suburbs, 3 case
studies, 1316
- Redington, Ariz., plant ecology of area, 4361
- Redit, W. H., protection of rail shipments,
of fruits and vegetables, 10475
- Reduction in force, *see* Government officials
and employees.
- Reduction of Federal Expenditures Joint
Committee, committee prints, 1719A,
2550-51, 10817, 16832-833
- Reduction roasting of Steep Rock iron-
bearing materials, 5962
- Redwood National Park, general information,
13198
- Reed, Jack W., long-range airblast, 7696
- Reed, John C., jr., ancient lavas in Shenan-
doah National Park near Luray, Va., 5701
- Reed, John H.:
addresses, etc.—
Mar. 20, 1969, 7365
June 26, 1969, 11558
July 9, 1969, 13204
- Reed, L. B., insects and diseases of vege-
tables in home garden, 1505
- Reed, Louis S.:
administrative expense of hospital insur-
ance in Canada, 2454
independent health insurance plans in
1968, preliminary estimates, 16419
per capita expenditures for hospital care,
services of physicians and dentists, and
private health insurance, by region and
state, 13437
- Reemployment rights, *see* Government offi-
cials and employees—Veterans.
- Reemsnyder, Dean C., performance and cavi-
tation damage of axial-flow pump in
1500°F (1089K) liquid sodium, 7296
- Reentry into atmosphere, *see* Atmospheric
entry.
- Reentry vehicles, *see* Missiles—Spacecraft.
- Reference books, Educational Materials
Center, reference tools, 1968-69 acqui-
sitions, list, 16962
- Reference data system, *see* National standard
reference data system.
- Reference radiographs for steel welds, 544,
5504-5
- Refineries *see* Petroleum refineries.
- Reflection:
TE_m mode reflection coefficient of ground-
plane mounted parallel-plate waveguide il-
luminating reflecting sheet, 8597
water wave transmission through and re-
flection by previous coastal structure,
hydraulic laboratory investigation,
16963
- Reflection (light):
spectral reflectances and solar absorp-
tances of 12 metals for temperatures
ranging from 300 to 500K, 13128
- Reflection (radio):
signal searching and ground reflection,
USSR study, 2065
statistical characteristics of quadrature
components of signals reflected from
randomly rough surface, 7130
- Reflectivity, retroreflectivity test, military
standard, 1792
- Reflectors, trip lights and reflectors, com-
parison, 980
- Reflexes:
conditioned—
cardiac reflexes when exposed to super-
high frequency electromagnetic fields,
USSR study, 8512
discussed by P. K. Anokhin, USSR
study, 5862
stapedius, threshold to selected acoustic
stimuli in normal human ear, 8575
- Reforestation, *see* Forest planting.
- Reform of Federal Criminal Laws, National
Commission on, *see* National Commission
on Reform of Federal Criminal Laws.
- Reform of Nation's postal system, 9258
- Reformatories:
Air Force correction facilities, operation
by security police, 3684
correctional institutions, 13432
correctional planning and resource guide,
8528
model in-service training program for cor-
rectional personnel, 871
residential center, corrections in commu-
nity, 13331
- Refractive index:
particle density correlation for nonequi-
librium cesium plasmas probed by multi-
frequency helium-neon laser, 11498
tables of mie scattering functions for par-
ticles with refractive index 1.5, 7282
- Refractors, *see* Telescopes.
- Refractory materials, refractories, current
industrial reports, 2733
- Refractory metals, *see* Metals.
- Refrigerants:
secondary refrigerant freezing—
desalting process, operation of 15,000
GPD pilot plant, 9959
process, mathematical study, 798
- Refrigerated storage warehouses, *see* Ware-
houses.
- Refrigeration and refrigerating machinery:
equipment—
current industrial reports, 3835
Federal item identification guides for
supply cataloging, supplements, 2845
Kennedy round, special report, 2045
shipments, 1958-67, patterns of indus-
trial growth, 11975
refrigeration, training aid, 10245
transit temperatures and modified atmos-
pheres, effects on market value of let-
tuce, 3647
- Refrigeration mechanics, *see* Mechanics (per-
sons).
- Refrigerator cars, rail shipments of fruits
and vegetables, protection, 10475
- Refrigerators, standard, converted to bio-
logical incubator, 3
- Refugees:
and civilian casualty and social welfare
problems in South Vietnam, hearings,
15465
and escapes, problems, investigation, au-
thorization, report, 4064
Cuban and others, assistance, appropria-
tions, 1970, hearings, 15299
status, protocol, 2502
message from the President, 436
report, 1726
- Refugees, Freedmen, and Abandoned Lands
Bureau:
Georgia, Superintendent of Education rec-
ords 1865-70, pamphlet to accompany
microcopy, 16221

Refugees, Freedmen, and Abandoned Lands Bureau—Continued
 registers and letters received by Commissioner, 1865-72, pamphlet to accompany microcopy, 11512
 selected series of records issued by Commissioner, 1865-72, pamphlet to accompany microcopy, 6034
 Refugees, *see* Wildlife refuges—*also* names of refugees.
 Refund of taxes, *see* Tax refunds.
 Refuse:
 disposal, international research group bulletins, 10319
 landfill in Hunting Creek, Va., permit—a debacle in conservation report, 6694
 hearing, 6716
 national status on control of garbage-feeding, 3168
 New Orleans, master plan for solid waste collection and disposal, management demonstration, report, 17342
 Pennsylvania anthracite refuse, survey of solid waste from mining and preparation, 10049
 safe and sanitary handling, 6205
 solid waste collection systems, comparing one-man with multi-man crews, study, final report, 11638
see also Waste products.
 Regalla, *see* Insignia.
 Regeneration (biology):
 birch regeneration, stochastic model, 678
 effect of prolonged reduced pressure on growth and nitrogen content of turnip, 3705
 longleaf pine regeneration in mountain and Piedmont provinces of Alabama, 1930
 regenerating pine in northern Mississippi, clearcutting and planting best, study, 8299
 yellow birch regeneration, influence of light, moisture, and seedbed, 11184
 Regenerators (machinery):
 T63 regenerative engine program, extended endurance and environmental testing, 5131
 Regional action planning commissions, grant-in-aid programs, amendments of 1969, hearings, 10802
 Regional educational laboratories, progress report, 586
 Regional Office for Central America and Panama, key instrument for U.S. assistance to Central America regional organizations, briefing papers, 12220
 Regional transmission maps, *see* Maps and charts.
 Registers:
 Air Force—
 departmental editions, 7628-29
 document editions, 7841-42
 Army—
 departmental editions, 13678-681
 document editions, 13851-854
 Army Material Command, approved recurring reports, 6428, 13652
 automation of rheumatic fever registries, report of seminar, 17329
 civil aircraft, United States, 5599
 Coast Guard, 7790
 Coast Guard Reserve, 7791
 Federal information processing standards, general information, 2283
 Federal register, 2869
 codification guide, list of CFR sections affected, 2870
 index, 2871
 Federal Water Pollution Control Administration project register, distribution by river basin of projects approved, 6990
 Hill-Burton projects, 2418
 labor organizations, revised pages, 5886
 manuscript register series, 16043
 microform masters, 4613

Registers—Continued
 national, of historic places, information leaflet, 17289
 Naval Academy, Annapolis, 2325
 Navy and Marine Corps retired officers, 2345
 papers in Library of Congress—
 Belknap, George E., 16037
 Balknap, Reginald R., 16037
 Callen, John 2126
 Cushing, Leonard F., 16035
 Luce, Stephen B., 11362
 Selfridge, Thomas O., Jr., 16040
 Selfridge, Thomas O., Sr., 16040
 Sellers, David F., 11362
 Shufeldt, Robert W., 11364
 Snow, Elliott, 16035
 Watson, John, 2126
 papers in Marine Corps Museum, Cochran, Henry C., 16013
 Refugees, Freedmen, and Abandoned Lands Bureau Commissioner registers and letters received 1865-72, microcopy, pamphlet to accompany, 11512
 State Department, biographic, 13470
 Registration, *see* subjects.
 Reglamento Union de Credito Federal, 5603
 Regression (statistics):
 analysis procedures for evaluation of tracking system measurement errors, 2225
 nonlinear regression problems, general computer program for solving, 14531
 study of human operator performance using regression analysis, 4676
 time series regression analysis of freight and passenger transport demand to 1980, 16509
 Regular reserves of Federal credit unions, 9754
 Regulations, *see* Code of Federal regulations—*also* names of departments, etc., issuing regulations—*also* subjects.
 Regulators, *see* Electric current converters.
 Regulatory agencies, *see* Government offices.
 Regulatory announcements, Sport Fisheries and Wildlife Bureau, 1426, 13461, 14884
 Rehabilitation:
 financing, RAA programs handbook, 5743
 HUD grants and loans to meet insurability requirements of your property, 15836
 international rehabilitation research and demonstration projects, annotated listing, 8853
 new directions in helping people help themselves, 13433
 of the alcoholic, report, 1368
 urban renewal program, improvements needed in management by Housing and Urban Development Dept., GAO report, 8330
 Rehabilitation counselors, *see* Counselors.
 Rehabilitation of criminals:
 final reports under Correctional rehabilitation study act of 1963, extend time for filing—
 law, 7829
 report, 6684
 probation/parole, pilot study of correctional training and manpower, 4928
 residential centers, corrections in community, 13331
 selective placement in Federal civil service employment, handbook, 15142
 Rehabilitation of the disabled:
 characteristics and trends of clients rehabilitated, 1964-68 statistics, 13405
 communications media and social rehabilitation programs (address), 4927
 coordinator's scoreboard—
 periodical, 2705
 review of what's new in placement of the handicapped, 15136

INDEX 1969

- Rehabilitation of the disabled—Continued
 - disabled people, help through rehabilitation, 14846
 - facilities, standards, 7456
 - halfway or more?, 10283
 - opportunity—
 - for blind and visually impaired through vocational rehabilitation, 10354
 - help for the mentally retarded, 14848
 - President's Committee annual meeting (speech), 10289
 - rehabilitation record (periodical), 3377
 - rehabilitation service series, 1368-69
 - respiratory rehabilitation, breath of hope, 17330
 - State salary ranges of positions, 762, 11259
 - veterans—
 - service-connected, pursuit of training on part-time basis, amend U.S. Code, hearing, 499
 - vocational rehabilitation, increase rates, reports, 12170, 16869
 - vocational—
 - aphasia patient, problems, 7441
 - employment opportunities (remarks), 1319
 - information for persons disabled in military service, 5900
 - reporting individuals as rehabilitated, need to improve procedures, GAO report, 715
 - State agencies, caseload statistics, 2439
 - State salary ranges of positions, 1980
 - use of support personnel, training guide, 1369
 - Vocational rehabilitation act, compilation, committee print, 6798
- Rehabilitation Services Administration, programs, 1370, 13406
- Rehnquist, William H., nomination, hearing, 5455
- Reid, Rosemary D., we hold these truths, 13515
- Reid, W. J., jr.:
 - aphids on leafy vegetables, how to control them, 16537
 - cabbage insects, how to control them in home gardens, 5035
- Reigle, Norman J., jr.:
 - bottom trawl explorations in—
 - Green Bay of Lake Michigan, 7811
 - Lake Superior, 6547
 - southern Lake Michigan, 1962-65, 9223
- Reimbursement incentives for hospital and medical care, objectives and alternatives, 4939
- Reinforced concrete, *see* Concrete.
- Reinforced plastics, *see* Plastics.
- Reinforcements, materials, high-strength, fabricated with composite structures, 182
- Reinhardt, Walter A., simplified molecular model for studying vibration-dissociation coupling in fluid flows, 17254
- Reinhart, George R., pharmacy manpower, 1966, United States, 13381
- Reinhold, R. O.:
 - climates of States, Arkansas, 12559
 - White River Lakes, Ark. and Mo., climatic summaries of resort areas, 14158
- Reiss, Eric, analyses and measurements of blood samples, 17199
- Relation of signal light intensity to physiologic end points during +G_x acceleration, 88
- Relationship of different forest floor layers to herbage production, 5675
- Relative annoyance and loudness judgments of various simulated sonic boom waveforms, 1016
- Relaxation time (physics):
 - studies of relaxation and comparison of prediction methods in hypersonic turbulent nozzle-wall boundary layers, 16181
 - tau-measurements of relaxation processes with a jump, USSR study, 5824
- Relay, *see* Satellites.
- Relays, *see* Electric relays.
- Release devices, deep sea release mechanism technical memorandum, 614
- Releases, *see* names of office issuing releases.
- Reliability (mechanical):
 - computer-aided reliability data analysis, introduction, 5995
 - evaluation of mechanical stability augmentation system for helicopters, 11956
 - man in maintenance reliability systems, FAA symposium, 5585
 - multistage probability model of sample reduction in mineral industries, 973
 - practical reliability, parameter variations analysis, 998
 - quality and reliability assurance handbook, 12377-378, 16935
 - reliability—
 - abstracts and technical reviews (periodical), 3378
 - and quality assurance publication, NHB series, 11509
 - design handbook, changes, 8846, 10271
 - reliability measurement program, guide manual, 1271
 - statistical exposition, 1272
 - reliability program for systems and equipment, development and production, military standard, 9524
- Relief work:
 - disaster communications, FCC rules and regulations, 2833, 15697
 - disaster relief, status of funds, report, 6584
 - Nigerian-Biafran relief situation, hearing, 467
 - relief supplies and packages, agreement with India, 7499
- Religions:
 - in USSR discussed, 4434
 - in war on poverty, 8146
 - nondiscrimination in public and private employment, equal employment opportunity under Federal law, guide, 13785
- Religious denominations, *see* Religions.
- Religious services, District of Columbia, prohibit annoyances, report, 12172
- Relocation, *see* Eminent domain—Plants (industrial).
- Relocation (housing), *see* Redevelopment (city planning, etc.).
- REMED project, *see* Project REMED.
- Remedial reading, *see* Reading.
- Reminiscences and reflections, 17002
- Remote information retrieval facility, 8595
- Remote sensing:
 - earth resources, cooperative research in remote sensing for earth surveys, agreement with—
 - Brazil, 4972
 - Mexico, 7497
 - oceanography, 13224
- Remote sensors, *see* Sensors.
- Renal diseases, *see* Kidneys.
- Rend Lake Reservoir, Big Muddy River, Ill., spillway, hydraulic model investigation, 11017
- Rendezvous (space):
 - earth orbit rendezvous maneuvers, visual sensing of spacecraft guidance information, 2194
 - time-optimal, computational method, 4742
- Renegotiation, *see* Government contracts.
- Renegotiation Board:
 - annual report, 4914
 - appropriations, 1970 hearings, 9332, 12285
 - bulletin, 2440, 4915, 8838-39
 - notice conversion table, renegotiation rulings, bulletins, 7442
 - regulations, 8837, 16395
- Renegotiation act of 1951, as amended, 4913
- rulings, 4916
- Renewal Assistance Administration, rehabilitation financing, RAA programs handbook, 5743

Renorming USES statistical typing test, 594
 Rent:
 low-rent housing financing handbook, 15833
 rental income and royalty income, tax information, 8436
 supplement program for low income families, Spanish edition, 5744, 5746
 Rental housing, *see* Housing.
 Renton, Wash.:
 flood plain information, 10996
 floods, how to avoid damage, 11001
 Reorganization of Government activities, *see* Government reorganization plans.
 Repair parts:
 aeronautical, need for more competition in procurement of, Defense Dept., GAO report, 712
 aircraft certification procedures for products and parts, Federal aviation regulations, 6928, 12583
 automotive repair industry, hearings, 9474
 high dollar spare parts breakout program, Army regulations, 7646
 packaging and packing procedures, military standard, 8135
 savings attainable by preventing condemnation of economically repairable equipment, Air Force Department, GAO report, 723
 Repair shops, equipment, Federal item identification for supply cataloging, supplements, 2844
 Repair stations, *see* Aircraft repair stations.
 Repairing:
 control over repairs of electronic components and assemblies, Navy Dept., GAO Review 7027
 tax information on repairs, replacements, and improvements, 12840
 see also subjects.
 Repairmen, *see* Body and fender repairmen.—Mechanics (persons).
 Repairs, *see* Repairing.
 Repas, David S.:
 description and evaluation of digital-computer design analysis program for homopolar inductor alternators, 7261
 performance characteristics of 14.3-kilovolt-ampere modified Lundell alternator for 1200 Hertz Brayton-cycle space-power system, 14643
 Repatriates, temporary assistance, 11958
 Repenning, C. A., stratigraphy of Chinle and Moenkopi formations, Navajo and Hopi Indian Reservations, etc., 5715
 Replenishment of USSR fish stocks by acclimatization, 12942
 Replication, *see* Variance analysis.
 Report on our foreign relations, 7485
 Report to the public, Secret Service, 8844
 Reporters and reporting:
 newspaper reporters, employment outlook, 4526
 official reporters, increase compensation for their expert transcribers, report, 377
 Reports:
 monthly, computer-generated summary of hours by fund and phase, 12766
 reporting procedures manual for Project Prime under resource management systems, Army pamphlet, 11938
 reports to be made to Congress, list, 3963
 scientific and technical, prepared by or for Federal government, format standards, guidelines, 1861
 uniform system for all modes of transportation in reporting incidents and accidents involving shipment of hazardous materials, 14721
 see also names of departments, etc., issuing reports—*also* subjects.

Reproduction:
 and development, film guide, 14687
 of paintings, U.S. Army art collection, 17167
 southern red oak and water oak propagation by rooted cuttings, 9862
 Reptiles:
 amphibians and reptiles of Barro Colorado Island, Panama, with comments on faunal change and sampling, checklist, 13422
 Desert National Wildlife Range, list, 2472
 endangered species, prevent importation and interstate shipment—
 hearings, 7967, 12290
 reports, 12190
 Moosehorn National Wildlife Refuge, list, 6253
 of public health significance, pictorial keys, 14799
 Republican Party, report, 90th Congress, 2d session, 4010
 Requirements statements for selected data acquisition equipment, 15673
 Requisitions:
 MILSTRIP, military standard requisitioning and issue procedures, 4142 9530
 supplement, 5510
 requisition fund codes, MILSTRIP, 4143
 Rescue equipment and appliances, Federal item identification guides for supply cataloging, supplements, 2844
 Rescue work, fire protection program, operational procedures, Air Force manual, 73
 Rescuing policy analysis from PBS, 8072
 Research:
 and development—
 activities of local governments, 13203
 advances in education, 587
 centers supported by Education Office, review, 4184
 congressional concern, bibliographies, 471, 14035
 federally financed, investigation and study authorization, report, 5407
 progress, Maritime Administration, 7196
 applied, method of measuring costs and benefits, 11378
 career development program, research and education in medicine, 7556
 centers, mental retardation, construction program, 11257
 facilities at State agricultural experiment stations, administrative manual, 10478
 federally sponsored research by education institutions, indirect cost, study, GAO report, 11228
 fellowships, National Institutes of Health, information and eligibility criteria, 16349
 funds, State agricultural experiment stations and other State institutions, 6818
 general clinical, need for further action to determine allowable costs and recover overpayments under center grants, National Institutes of Health, GAO report, 1944
 Government-sponsored nonprofit contractors, need for improved guidelines in contracting for research by Defense Dept., Atomic Energy Commission, National Aeronautics and Space Administration, GAO report, 5689
 Library of Congress facilities, 5922
 naval, reviews (periodical), 3174
 OAR research directory, 7632
 postdoctoral associateships, 1969, tenable at National Bureau of Standards 1177
 R & D careers, continuing education, exploratory study, 16280
 research briefs, 3383
 research in action, Department of State's Bureau of Intelligence and Research, 1437
 Soviet budget provides for research and defense, 15918

- Research—Continued
 study of fundus tracker for experiments
 in stabilized vision, 997
 U.S. Government research and develop-
 ment reports, 3536
 index, 3537
 quarterly cumulative index, 3538
see also Military research—Scientific re-
 search—*also* names of departments, etc.,
 doing research—*also* subjects.
- Research and development reports—
 Army Electronics Command, Fort Mon-
 mouth, N.J., 3737-42
 Atomic Energy Commission, 185-196,
 1594-1606, 3788-3815, 5135-85, 6466-
 75, 7674-7715, 9063-77, 10536-569,
 11959-964, 13685-721, 15062-77,
 16603-631
 Research and development technical reports
 Army Electronics Command, Fort Mon-
 mouth, N.J., 1566-72, 16583
 Research and statistics notes, 2454-59,
 4938, 6235, 8836-59, 10368-371, 11669-
 670, 13436-437, 16416-419, 17382
 Research Bureau, Education Office, support
 for research and related activities, descrip-
 tion, 9658
 Research Conference in Pulmonary Diseases,
 transactions, 1487, 17434
 Research Flight Facility, Miami, Fla., ESSA
 technical report, ERL-RFF series, 15674
 Research foresters, *see* Foresters.
 Research information digest, recent publi-
 cations of Southeastern Forest Experi-
 ment Station, 1909
 Research institutes:
 USSR—
 Party unit's role at Institute of
 Chemistry of Plant Substances
 praised, USSR study, 17130
 public health work of research organiza-
 tions, study, 15968
 Research Laboratories, ESSA technical re-
 ports, 5577
see also names of laboratories or places
 where located.
 Research notes, Forest Service, 674-682,
 1910-31, 4303-21, 5669-78, 7008-18,
 8291-8304, 9847-65, 11171-180, 12695-
 707, 14281-288, 15756-760, 17017-36
 Research papers:
 Forest Service, 683-699, 1932-36, 4322-31,
 5679, 7019-21, 8305-17, 9866-69,
 11181-190, 12708-715, 14289-291,
 15761-775, 17037-54
 physical sciences research papers, 1537
 Research reports:
 Air University, abstracts, 13617
 Appalachian Regional Commission, 9018
 Arms Control and Disarmament Agency,
 3734
 Children's Bureau, 13778
 Cold Regions Research and Engineering
 Laboratory, 1573-76, 3744-46, 7647-
 48, 9030-32, 10541, 11929-932, 15038,
 15649-650
 Federal Credit Unions Bureau, 11055,
 12608
 Injury Control Research Laboratory,
 13350
 Lake Survey, 903-904, 4611, 11357
 National Cancer Institute, 4784
 National Commission on Urban Problems,
 4860, 7405-06, 10284
 Reclamation Bureau, 4910, 11652, 14839,
 16392-393
 Social Security Administration, 1396,
 4939, 7459, 13438
 Sport Fisheries and Wildlife Bureau, 2479
 Waterways Experiment Station, 1825-26,
 16968
 Research review (periodical), 3386
 Research scientists:
 continuing education for R & D careers,
 exploratory study, 16280
 criteria for choosing, USSR study, 835
- Researcher (ocean survey ship):
 dedication (remarks), 314
 Resenthal, Neal H. matching sheepskins
 with jobs, employment outlook for college
 graduates, 5910
 Reservations, *see* names of reservations.
 Reserve components of Armed Forces:
 annual report of Secretary of Defense,
 15492
 facilities, construction authorization, 1970,
 hearings, 12206
 job rights, key answers for employers, etc.,
 5002
 personnel strengths for 1970, authoriza-
 tion—
 hearings, 108887
 reports, 12258, 15295, 16772
 Reserve Officers Association and civil defense,
 12033
 Reserve Officers Training Corps, Air Force:
 career opportunities, everything from
 ground up, 76
 management control system, data base,
 development, 10509
 prediction of officer performance and
 retention from selected characteristics
 of college attended, 10510
 Reserve Officers' Training Corps, Army:
 Army ROTC scholarship program, 6430
 flight training, general information, 15036
 manuals, 3774
 program, where the leaders are, 13682,
 15059
 scholarship program, Army ROTC, 15037
 investment in your future, 15045
 step into your future, new 2 year Army
 ROTC program, 3775, 15051
 welcome to Army ROTC, 9061
 Reserves (accounting):
 link reserve creation and development as-
 sistance—
 proposal, 12131
 staff study, 6566
 regular reserves of Federal credit unions,
 9754
 Reservoirs:
 Columbia River basin, storage in major
 power reservoirs, monthly report, 3470
 echosounder used in measuring distribu-
 tion of reservoir fishes, 7475
 on Bureau of Reclamation projects, statisti-
 cal compilation, 14842
 outlet works inlets, characteristic pres-
 sure distribution, 15666
 Pacific Northwest, month-end storage in
 major reservoirs, 3470
 policies and practices for acquiring land
 for reservoir projects, Corps of Engi-
 neers (civil functions), GAO review,
 4345
 stratified, mechanics of flow, in interest of
 water quality, 14156
 United States, sediment deposition surveys
 made through 1965, summary, 10491
see also names of reservoirs.
 Residence (law), *see* Domicile.
 Residences, *see* Houses.
 Resident hospital administrators, *see* Hos-
 pital administrators.
 Resident physicians, *see* Physicians.
 Residential construction, *see* Building—Con-
 struction industry.
 Resins:
 epoxy—
 boron-epoxy and glass-epoxy filament-
 wound cylinders, mechanical behavior,
 under various loads, 7256
 or polyester resin concrete in tensile
 zone of composite concrete beams,
 6910
 rings and belts, tensile behavior of
 boron-filament-reinforced, 6008
 fluid resin technic of processing denture
 bases, 1538
 ion exchange resins, improved Eluex proc-
 ess for eluting uranium from, 4648

Resins—Continued
materials, U.S. production and sales,
preliminary report, 3265
production and sales, 6319
see also Adhesives—Olcresins.
Resistance, *see* Electric resistance.
Resistors, *see* Electric resistors.
Resolution changes in lithium-drifted silicon
semiconductor detectors irradiated with
0.5, 1.0, 2.0, and 3.0 MeV electrons, 1118
Resolutions:
digest, 2768
history, 2688
see also Law.
Resolvers, *see* Electric resolvers.
Resonance:
attenuator based on ferrite resonance
switch, 16611
carbon-13 nuclear magnetic resonance
spectra of monosubstituted pyridines,
11376
cyclotron resonance oscillators, design con-
siderations, 11463
electron-cyclotron resonance in magnetic
trap with plugs, plasma-electron confine-
ment region, 5139
integrals of rhenium for wide range of
sample sizes, 1142
near-resonance testing, use for identifica-
tion of structural systems, 6016
rare gas resonance lamps, 16230
resonant mode analysis of the Fitzgerald
apparatus, 7277
Resonant frequencies, *see* Frequencies.
Resonators, Hemholtz, evaluated with rocket
combustor, design of acoustic liners for
rocket engines, 7304
Resor, Stanley H., nomination, hearing, 4072
Resort areas, climatic summaries, 5575-76,
9719, 11020-21, 12559-60, 14158
Resource bulletins, Forest Service, 700-701,
1937-39, 4332-35, 8319-20, 11191-194,
15776
Resource management system, accounting
and reporting procedures manual for
Project Prime, Army pamphlet, 5112, 9039,
11938
Resource publications (series), 1427-29,
2480, 6255, 7470-72, 10398-399, 11690,
13462-465, 14885, 16456, 17395-396
Resources, *see* Natural resources.
Resources analysis memo, 14695
Respect for drugs, community service pro-
gram, 5966
Respiration, external, change of indices of
human subject during weightlessness,
USSR study, 7139
Respiratory acidosis, *see* Acidosis.
Respiratory functions, idiopathic respiratory
distress syndrome, proceedings of inter-
disciplinary conference, 17277
Respiratory organs:
calculation of organ and tissue burdens
and doses resulting from acute exposure
to radioactive aerosol using ICRP Task
Group report on human respiratory
tract, 5157
chronic respiratory disease, current re-
search, 11th Aspen Emphysema Con-
ference 1968, proceedings, 6175
respiratory rehabilitation, breath of hope,
17330
Respiratory system:
modelling mechanism of generation of
respiratory rate, USSR study, 15962
rapid compression in saturation-exursion
dives to 1000 feet, effect on pulmonary
functions, 13004
respiratory tract in health and disease, re-
view of research grants supported by
National Heart Institute, 11541
Response functions:
behavioral and circulatory responses to x-
irradiation delivered at 200 rads per
minute to whole body and trunk only,
3710

Response functions—Continued
human responses—
in closed-loop tracking tasks, synthesis,
1074
to aerospace environment, compendium,
1024-26, 2188
response envelope, global description of 3
axis large-angle spacecraft attitude con-
trol systems, 1113
Responses:
asymmetric nonlinear dynamic response
and buckling of shallow spherical shells,
11419
ratios of steady-state responses to various
transient responses, both having equal
maximum excitation levels, 4750
Response (psychology):
autonomic response to auditory stimula-
tion during sleep, 15019
perspectives on human deprivation, bio-
logical, psychological, and sociological
influences, 14693
sixty-minute vigilance task with 100 score-
able responses, 14501
Rest area use study manuals, 2438, 14819
Restaurants, lunchrooms, etc.:
eating and drinking places industry, 6904
fair labor standards act, minimum wage,
study of effects of \$1.00 minimum, 1968
report, economic effects studies, 5003
occupations, employment outlook, 4589
Puerto Rico industry, minimum wages
rates, data pertinent to review, 13527
Rester, D. H., experimental study of electron
transmission and bremsstrahlung produc-
tion, 14572
Restraint apparatus:
advanced, experimental impact protection
with, preliminary primate tests with air
bag and inertia reel/inverted-Y yoke
torso harness, 16636
pathology of trauma attributed to, in crash
injuries, 16635
Restricted stock options, *see* Stocks.
Resuscitation, mouth-to-mouth, cardiopul-
monary, heart-lung, 10635
Retail Credit Co., Atlanta, Ga., invasions of
privacy, hearing, 10789
Retail stores, *see* Stores.
Retail trade:
census of business, area statistics, 6493-
94, 7736, 9100-15, 10595-596, 11982-
990, 13733-753, 15090
current business reports, 2723, 2726, 2729
employee earnings and hours, 4593
employment of full-time students at special
minimum wages, regulations under fair
labor standards act, 1490
Puerto Rico, industry under Fair labor
standards act minimum wage rates,
10450
retailing, bibliography, 11660
see also Food—Salesmen and salesman-
ship—also names of commodities and
industries.
Retainers, for electrical and electronic com-
ponents, Federal item identification guide,
15504
Retrofsky, Herbert L., carbon-13 nuclear
magnetic resonance spectra of monosub-
stituted pyridines, 11376
Reticuloceras tiro, *see* Fauna.
Retina, retinal burn and flashblindness safe
separation distances, calculation, 3707
Retinopathy, diabetic, treatment, symposium,
11639
Retired Officers Association and Civil defense,
12029
Retired officers, etc.:
naval personnel, employment activities,
12958
retirement services for Army personnel
and their families, handbook, 5121
Retired pay, *see* Pensions.

Retirement:

- Federal judges after 20 years service regardless of age, report, 16851
- income and retirement income credit, tax information, 8437
- negotiated plans, decade of benefit improvements, 11353
- public employee systems, benefits and beneficiaries, 10369
- Public Health Service commissioned officers, equalization of retirement benefits, reports, 16856
- selected public-employee retirement systems, holdings, quarterly report, 5226
- self-employed owner managers, retirement plans for, 13412
- test, under social security amendments of 1967, report, 6370
- your social security, 1402, 7462
- see also* Air Force—Armed Forces—Army—Civil service pensions—Pensions—Railroad employees.

Retirement insurance, *see* Old age, survivors, disability and health insurance.

Retorts, horizontal zinc retorts, 2179

Return to work after severe disability, 6230

Reucroft, P. J., electrical characteristics of Pyrrone polymers, 11416

Reukema, Donald L.:

- growth response of 35-year-old, site V Douglas fir to nitrogen fertilizer, 4317

Reunion, plant quarantine import requirements, 13552

Reuss, M. L., jr., phase-shift enhancement by mode-suppression techniques, 6135

Reville for volunteers, 6898

Revenue:

- and expenditure control act of 1968 decisions of conferees on H.R. 15414, summary, 5439

District of Columbia—

- Federal payment authorization, report, 15407
- provide, hearings, 10774, 15430

Federal Government should grant annually specific percentage of its income tax to State governments, national debate topic for high schools, 1969-70, selected excerpts, etc., 15224

Federal revenue sharing with States, message from the President, 13863

postal, adjust, recommendations, 9364

see also Internal revenue—also names of articles, etc., from which revenue is derived.

Revenue agents:

- career in professional accounting, IRS, 15872

revenue officer career opportunities, 15873

Revenue Commissioner, letters of Tench Cox, 1794-96, on procurement of military, naval, and Indian supplies, pamphlet to accompany microcopy, 14657

Revenue officers, *see* Revenue agents.

Revenue stamps, use of illustrations and motion-picture films and slides, 14851

Revenues and classes of post offices, 2396

Reverse osmosis process, *see* Osmosis.

Review of United States foreign policy and operations, 9422

Revillagigedo Island, Traitors Cove, Alaska, oceanographic surveys, 3927

Revolution, 1775-83:

- American Revolution, selected reading list, 2125

naval documents of American Revolution
 American theatre Feb. 19-Apr. 17, 1776.
 European theatre, Feb. 1-May 25, 1776.
 American theatre, Apr. 18-May 8, 1776, 17307

Revolutionaries, *see* Revolutionists.

Revolutionary War, *see* Revolution, 1775-83.

Revolutionists:

- collegiate dissidents and militants, revolutionary terrorism on campuses, The

New Left study—

memorandum, 9476

print as Senate document, report, 9104

Revolutions:

- frustrated counter-revolution in Czechoslovakia, 2060

scientific-technical revolution, USSR comments, 15955

see also Civil strife.

Revolutions in economic policy (address), 3906

Revolving funds:

- Civil Service Commission, expand use, amend U.S. Code, report, 7931

Farmers Home Administration, emergency credit, temporary funding, report, 9412

Guam development fund, establish, report, 372

Rewards (prizes, etc.):

- Armed Forces decorations and awards (poster), 6427

associate degrees and other formal awards below baccalaureate in higher education, 6867, 14129

awards for modern foreign language and area study, 5533

Coast Guard Auxiliary uniform, awards, and flag code manual, 9197

incentive awards program, Federal employees, 10625

Order of Red Banner for scientific research by Institute of Physical Chemistry imeni L. Ya Karpov, 5823

President's E award for export excellence, presentation to Den-Tai-Ez Chair Manufacturing Co. and Townsend Engineering Co. (address), 10644

scientific institutes experiment with economic material incentives, USSR study, 11320

Soviet prizes in science and technology, 15909

suggestion award portion of incentive awards program, management, Army Dept., GAO report, 14320

Thomas McKennan award (remarks), 5758

United States Navy and Marine Corps awards manual, 7391

urban development, intergovernmental awards program, 1967 honor awards, 4388

USSR state prizes in field of science and technology, roster of recipients, 5874

Reynard, Diana, cancer chemotherapy abstracts, 2641

Reynolds, Hudson G., aspen grove use by deer, elk, and cattle in southwestern coniferous forests, 14281

Reynolds, R. R., 29 years of selection timber management on Crossett Experimental Forest, 11188

Reynolds number:

- aerodynamic forces on stationary and oscillating cylinder at high Reynolds number, 4756

flow in two-dimensional channel with rectangular cavity, 2202

lubrication in turbulent regime, 3794

Reynolds number and boundary layer transition location, effects on shock-induced separation, 4731

subsonic sphere drag measurements at intermediate Reynolds numbers, 13050

unit effect, nose bluntness, angle of attack, and roughness on transition on 5° half-angle cone at Mach 8, 2259

RFF, *see* Research Flight Facility, Miami, Fla.

RH factor, *see* Blood.

Rhenium:

- and other solutes, ductilizing of group via elements, review, 2254

arc-melted tungsten-rhenium-hafnium-carbon alloys, mechanical properties, 13123

- Rhenium—Continued
gains in extraction urged, USSR study, 11316
- LEED (low-energy electron diffraction) studies of adhesion to rhenium, 10143
- recovery from tungsten-rhenium alloy, 10055
- resonance integrals for wide range of sample sizes, 1142
- Rhesus monkeys, *see* Monkeys.
- automation of rheumatic fever registries, report of seminar, 17329
- selected references, 11632
- Rheumatism, arthritis and rheumatic diseases abstracts, 2607
- Rhoads, William A.:
ecological and environmental effects from local fallout from Cabriole, 13707
- radiosensitivity of certain perennial shrub species based on study of nuclear excavation experiment, Palanquin, with other observations of effects on vegetation, 9064
- Rhode Island:
Agricultural Stabilization and Conservation Service, annual report, 11843
- census of business, 1967—
retail trade, area statistics, 9109
- selected services, area statistics, 16650
- wholesale trade, area statistics, 15108
- electric rate book, 11074
- Federal outlays, report of Federal Government's Impact by State and county, 9571, 9620
- landings, fish and shellfish, 3394, 10662
- mineral industry, minerals yearbook chapter, 966, 17189
- pollution of interstate waters of Blackstone and Ten Mile Rivers and tributaries, conference proceedings, 1895
- right-of-way acquisitions, need for improved appraisal, GAO report, 1945
- Rhodes, J. R.:
nuclear techniques in on-stream analysis of ores and coal, 5166
- X-ray analysis using radioisotope sources, 6469
- Rhodes, Marvin D.:
calorimetric evaluation of—
three 1.5 meter-diameter inflatable rigidized solar concentrators, 11461
- two cone-column solar-energy concentrators, 7281
- calorimetric, optical, and vibration investigations of stretch-formed aluminum solar concentrators, 1108
- Rhodesia:
capsule facts for Armed Forces, 5100
- Southern—
background notes, 4960
- mineral industry, minerals yearbook chapter, 4627
- trade, etc., message from the President, 5329
- Rhodium, analyses of ultramafic and mafic rocks from Stillwater complex, Mont., 9894
- Rhododendrons, growing, information, 5039
- Rhyacionia, *see* Tip moth.
- Rhyolite, close-in air blast from cratering nuclear detonation in rhyolite, 3804
- Rhyarus, *see* Beetles.
- Ribonucleic acid:
action of actinomycin 2703 on RNA metabolism of spinal motoneurons under conditions of hyperfunction, histochemical data, USSR study, 843
- nuclear RNA in cerebellum and in cerebral cortex of rats at different stages of conditioning, quantitative changes, USSR study, 8507
- Rice, Dale W., list of marine mammals of world, 5306
- Rice, Dorothy P.:
outlays for medical care of aged and non-aged persons, fiscal years 1966-68, 13436
- paper, Oct. 24, 1967, 16412
- Rice:
distribution in U.S., 12411
- foreign agriculture circulars, 2902
- inspection, improve procedures, hearing, 16807
- market news, 3395
- price support and marketing incentive program for Liberia, 16557
- production and export in Brazil, prospects for 1970's, 15624
- rough rice, cost of commercial drying, storing, and handling, 12410
- situation, 6864, 15625
- West Africa, study, 11885
- Rice Inspection Service, establish hearing, 16807
- Rieh, Edward P., landmarks in science, great rare books from USMA library collection, 14520
- Richards, Alan M.:
consideration of some hi-fi earphones for submarine sonar, 16065
- perception of pitch in white noise mask, 7197
- Richards, Louise G., LSD-25, layman's guide to pharmacology, physiology, psychology and sociology of LSD, factual account, 16117
- Richardson, Bland Z., cable and clamp modifications for Model 104 moisture probes, 1914
- Richardson, Elliot L.:
address, Sept. 5, 1969, 16469
- foreign aid and U.S. national interests (statements), 16465
- nomination, hearing, 4079
- Richardson, R., some characteristics of Oocystis polymorpha, thermotolerant green alga suitable for mass culture, 10527
- Richardson, Robert B., transferring military experience to civilian jobs, study of selected Air Force veterans, 2103
- Richmond, Chester A., Jr., nomination, hearings, 9432
- Richmond National Battlefield Site, general information, 17291
- Richmond, Va.:
accounts and deposits in all commercial banks in district, summary, 9770
- area wage survey, 14452
- Richter, Donald H., distribution of gold and some base metals in Siana area, eastern Alaska Range, Alaska, 11236
- Rickard, Wesley M., economic evaluation and choice in old-growth Douglas-fir landscape management, 1932
- Riekus, George M., Jr., development of aviation combat criterion, preliminary report, 14502
- Riddle, R. K., study of optical properties of 26-inch refractor, 10214
- Ridley, D. H., effects of lithium and oxygen losses on magnetic and crystallographic properties of spinal lithium ferrite, 7307
- Riedel, John T., probable maximum precipitation over South Platte River, Colo., and Minnesota River, Minn., 6349
- Riesenberg, Saul H., native polity of Ponape, 2315
- Rietz, Raymond C., dip treatment in polyethylene glycol not effective in preventing surface checking, 12698
- Rifles, M-16, procurement, additional, report, 457
- Rigby, Malcolm, NODC quarterly accessions, computer produced indexes, 3203
- Rigdon, Dorothy, rehabilitation record, 3377
- Rigdon, W. S., radiative and convective heating during atmospheric entry, 1007

INDEX 1969

- Rigging:**
 airdrop operations, technical manual, 1/4 ton utility trucks, 1582
 Army technical manual, 175
 assembly and rigging procedures for personnel parachutes, military standard, 8136
 military floating and fixed aluminum bridges, airdrop of supplies and equipment, 6443
see also Masts and rigging.
- Rights-of-way, *see* Roads and highways.**
- Right spirit all year long, 5552**
- Right to exist, report on our endangered wildlife, 13463**
- Rights (civil), *see* Civil rights.**
- Rights in concord, response to counter-inaugural protest activities in Washington, D.C., 13325**
- Rights of persons, social security, rights and benefits based on disability, regulations, 13441**
see also Civil rights.
- Rights-of-way, *see* Roads and highways.**
- Rike, Arthur, relief, 10827**
- Riley, H. L., mineral industry of Kentucky, 2148**
- Riley, R. L., development of ultrathin membranes, 4397**
- Rlm Kwan, improvement of integral equation method in plane elasticity through modification of source density representation, 5977**
- Rimestad, Idar, nomination, hearing, 15454**
- Rincon, N. Mex., ground water in Rincon Valley, shallow quality, 14354**
- Ring tensile, strength studies of ice, 7650**
- Rings:**
 rubber O-rings, visual inspection guide, military standard, 541, 10952
 wiping and sealing, Federal item identification guide, 537
- Rio Grande and Valley, water supply outlook and snow surveys, 3584**
- Rio Grande National Forest:**
 general information, 12716
 La Garita Wilderness, general information, 15752
- Rio Puerco:**
 Upper, production capabilities of some soils, 682
- Rio Sao Francisco Basin, Brazil:**
 land and water resources, reconnaissance appraisal, 1366, 10350-352
- Riordan, John J., zero defects, quest for quality, 557**
- Riots:**
 campus disorders, extent of subversion, hearings, 16888
 campus riots and disorders, Oct. 1967-May 1969, staff study, 14037
 civil and criminal disorders, investigation, hearings, 474-475, 8073, 9466, 12300, 14036, 14049, 15459
 print additional copies, report, 440, 12276-277, 15363-364, 15386-388
 colleges and universities, student disturbances act of 1969, hearing, 14051
 guerrilla warfare advocates in U. S., report, 4004
 industrial defense against civil disturbances and sabotage, 11600
 insurance legislation, 1968, compilation, with related documents, 393
 justice in time of crisis, administration in District of Columbia during and after civil disorders of Apr. 1968 and in riot-related prosecutions, 13322
 looting and burning, subversive influences, hearings, 425-426, 4005, 7977
 print additional copies, report, 10753, 12278
 major riots and civil disorders, 1965-July 31, 1968, staff study, 4082
 Miami, Fla., report, of Miami Study Team on Civil Disturbances, 4859
- Riots—Continued**
 war on campus, eruption of student revolt, The New Left study—
 memorandum, 9476
 print as Senate document, report, 9404
- Rippel, H. C., NASA contributions to fluid-film lubrication, survey, 10101**
- The ripples reach all shores, 6848**
- Risk, if you must smoke, 5 ways to reduce risks, 13348**
- Risse, Lawrence A., cost and performance of polystyrene boxes for shipping ice-packed poultry, 6383**
- Ristow, Walter W., facsimiles of rare historical maps, list of reproductions, 5920**
- Ritchie, Donald D., initial fungus attack on tropical woods in Panamanian estuarine waters, 10248**
- Ritter, Dorothy, hardware retailing, 1379**
- Ritter, John R., preliminary studies of sedimentation and hydrology in Bolinas Lagoon, Marin County, May 1967-June 1968, 15801**
- Rivas, Luis R., fishermen's atlas of monthly sea surface temperatures for Gulf of Mexico, 3918**
- Riverbank echo-ranging system for riverine positioning, 13247**
- River boats, *see* Steamships.**
- Rivers:**
 contributions to stream-basin hydrology (series), 8351
 daily stages, 11781, 16526
 daily weather and river bulletin, Albuquerque, N. Mex., area, 2742
 discharge of streams and water quality, Lehigh River basin, Pa., 14374
 doctrine for riverine operations, Marine manual, change, 8567
 flood control—
 and basin monetary authorizations, 1968, hearings, 415
 projects in Hawaii, on-site inspection, report, 4097
- Ice—**
 conditions, effects of thermal pollution, simplified method of calculation, 15649
 jams, literature review, 904
 improvements, laws relating to, compilation, 6569
 interstate and international streams, use and control of waters, compacts, etc., 3946
 invertebrates in streams, effects of lamprey larvae on, 3926
 measurement of discharge by moving-boat technique, 5725
 low herbicide concentration found in streamflow after grass cover is killed, 9863
 middle basin tributary streams, water quality, South Platte River basin, 8266
 natural filtering of suspended soil by stream at low flow, 8291
 river basin surveys (series), 17372
 river mile index—
 Moses Coulee, Crab & Foster Creeks, Okanogan, Sanpoil, Colville & Kettle Rivers, Columbia River basin, British Columbia and Washington, 13310
 Pacific Coast basin, coastal tributaries—Oregon, 13308
 Washington State, 13309
 river summary and forecast, daily bulletin—
 Memphis, Tenn., area, 3396
 New Orleans, La., area, 3397
 Shreveport, La., area, 3398
 riverine positioning, riverbank echo-ranging system, 13247
 sand channel stream, stage-discharge characteristics of weir, 12799
 storage requirements for Arkansas streams, 1976

Rivers—Continued
 stream-aquifer systems, analog-digital models, 12754
 stream gaging, appraisal of surface water investigations in Philippines, 11654
 stream sediments in geochemical exploration for gold interpreting pan-concentrate analyses, 11235
 streams in vicinity of Fairfield, Calif., engineers report—
 departmental edition, 15663
 document edition, 15225
 temperatures, Pacific Northwest, 3399-3400
 tracer measurement of stream reaeration, 9837
 transport of radionuclides by streams (series), 1964
 variations in low-water streambed elevations at selected stream-gaging stations in northwestern California, 14373
 Walla Walla River basin, Washington and Oregon, sediment transport by streams, 15817
 water availability seminar, criteria for type I comprehensive basin studies, 10453
 water resources—
 of windward Oahu, Hawaii, 7064
 planning act of 1965, river basin commissions established, report, 5332
 see also names of rivers or places where located.
 Riverside, Calif., area wage survey, 5907
 Riverside, Idaho:
 flood plain information, 9683
 floods, 9707
 Rivets:
 fatigue-crack-propagation behavior in panels with simulated rivet forces, prediction, errata, 4699
 making, classification definitions, 2361
 rivet caps and collars, Federal item identification guide, 15513-514
 RNA, see Ribonucleic acid.
 Roach, Benjamin A., even-aged silviculture for upland central hardwoods, 5026
 Road machinery, maintenance equipment, Federal item identification guides for supply, cataloging, supplements, 2842
 Roads and highways:
 aerial surveys and mapping by photogrammetric methods, reference guide outline specifications, 9774
 America's lifelines, Federal aid for highways, 10340
 balanced freeway design (paper), 14813
 book about space, joint development, 4901
 code of Federal regulations, 9804
 construction on Federal highway projects, standard specifications, 16389
 coordinated data system for highway planning, 7436
 development of multiple use facilities on highway right-of-way, interstate route 40 in Oklahoma City, Okla., 16384
 District of Columbia, metropolitan area pilot study, highway facilities and other modes of commuter service, relationship, 1722
 drainage of highway pavements, 8826
 economics of highway emergency ambulance services, 10187
 entrance road, Great Smoky Mountains National Park, specify route, etc., report, 16874
 fatal and injury accident rates, 1967, on Federal-aid and other highway systems, 6216
 Federal aid and allied highway programs, tables, 4255, 11059
 Federal aid and highway safety programs, hearings, 13939
 Federal-aid highway act of 1956, power of President to impound funds, opinion of Attorney General, 2093

Roads and highways—Continued
 Federal aid highway act of 1968, equal employment opportunity provision, implementation—
 hearings, 6799
 print as Senate document, report, 8024
 report, 6736
 Federal-aid highways, multiple use and joint development, status report, 13388
 highway beautification act of 1965 as amended, hearings, 13939
 highway condemnation law and litigation, State by State summary of cases reported, 1946-61, lists, 1360
 highway construction, sediment movement in area of Scott Run basin, Fairfax County, Va., 12796
 highway planning—
 notes, 2958
 technical reports, 7435-36, 10342-344, 11646-647, 14814, 16387
 highway posts, Appalachian woods, evaluation, 15765
 highway-railway grade crossing safety program, 13508
 highway research and development news, plant ecology and esthetics, progress and implementation, 8825, 13386
 highway research and development studies using Federal-aid funds, 6217
 highway safety—
 act of 1966—
 administration, annual reports, 6326, 12137-138
 estimate of cost of carrying out provisions, 11752
 programs implementing requirements, review, oversight hearings, 14060
 state programs, cost estimates, report, 417
 design and operating practices, handbook, 633
 supplements, 4254
 design and operations, freeway signing and related geometrics, hearings, 1709
 literature, announcement of recent acquisitions, 2959
 compilation, 1952
 subject category index, 16240
 national standards—
 project descriptions and significance to State programs, 4772, 11534
 State projects initiated and conducted, resume, 4773
 highway trust fund—
 financial condition and operations, annual report, 6580
 operation, authorizations, interstate system cost estimates, status of interstate system, 11057
 highways—
 and their environmental considerations, literature references, 14815
 new developments in design, etc., news-briefs, 14816
 improvement of transportation graphics and communications, proceedings of seminar, 13387
 interstate system—
 general information, 10345
 highway transportation needs after building the interstate (remarks), 7437
 relationship between geometric and traffic characteristics and accidents, analysis and modeling, 16380
 legislation, 1969, hearings, 13939
 Maryland, real property acquisition for highway purposes, reports, 15245, 15413
 military installations, geometric design, etc., Army technical manual, 5125
 motor vehicles weight and width limitations on interstate system, raise limits, hearings, 15326
 national conference AASHO committee, proceedings, 1361

INDEX 1969

- Roads and highways—Continued
 national forest development road system, traffic regulation and law enforcement, 13602
 national highway functional classification, study manual, 8827
 National System of Interstate and Defense Highways, route 52 in West Virginia, designate as part, hearings, 13939
 national traffic and motor vehicle safety act of 1966, administration, annual reports, 12137-138
 Navajo Indian Reservation road, construction and improvement, report, 14007
 network analysis series, use of effective speed as evaluation criterion, 16387
 outdoor advertising, control, amend U.S. Code, hearings, 12321
 public access to public domain lands, 2 case studies of landowner-sportsman conflict, 1514
 public roads, journal of highway research (periodical), 3344
 report on dimensions of airport ground access problem, 12627
 rest area use study manuals, 2438, 14819
 right-of-way acquisitions in Rhode Island, need for improved appraisal, GAO report, 1945
 right-of-way stopping, techniques for passing, home study driver course, traffic safety, 10611
 right-of-way training program—challenging opportunities in Public Roads Bureau, 16383
 1968 college recruiting, report, 11058
 rigid pavements for roads, Army technical manual, 10551
 roads, airbases and heliports in theater of operations, planning and design, 174
 roadside market, building plan, 6391
 soil stabilization, engineering and design manual, 13661
 State and community highway safety funds for 1970, formula for apportionment, provide, oversight hearings, 14060
 State Highway 441 and 442, memorandum on streamflow data, Tickfaw River at Starns Bridge near Magnolia, La., 8361
 State highway safety programs, problems arising from Federal grants, GAO report, 11221
 statistics, 2437
 structural systems in support of safety, 14821
 toll facilities in United States, 4906
 Tor-Shok reusable energy absorbing protective barrier, 14822
 traffic corridors, test comparison between functional and volume concepts of delineating, 7435
 user act of 1968, proposed legislation, analysis, 1717
 Road signs, *see* Signs (road).
 Roadsides, *see* Roads and highways.
 Roanoke River and Valley, flood plain information, 12474
 Roanoke, Va.:
 flood plain information, 13471, 13474
 floods, how to avoid damage, 12509
 Robb, Margaret, skill training for production of memorized movement pattern, 2204
 Robb, Roger, nomination, hearing, 12309
 Robbery, *see* Pillage.
 Robbins, Chandler S., breeding bird survey, 16457
 Robbins, John R., jr., soil survey, Perry County, Ind., 14878
 Robbinsville, N.C., floods on Cheoah River and tributary creeks, 16503
 Roberson, C. E., solubility of aluminum in presence of hydroxide, fluoride, and sulfate, 8383
 Robert A. Everett Memorial Bridge, across Mississippi River, name, report, 5402
 Robert A. Taft Water Research Center, report TWRC series, 14245, 15744-745
 Robert S. Kerr Lock and Dam, Arkansas River, navigation conditions, hydraulic model investigation, 605
 Roberts, Althea W., new ship construction, 16052-53
 Roberts, B. W., superconductive materials and some of their properties, 10180
 Roberts, Jean, hearing status and ear examination, findings among adults, 1354
 Roberts Victor Mine, South Africa, partially melted kyanite eclogite, 7454
 Robertson, Glen A., recruiting and career counselling journal, 3371
 Robertson, Harry F., mineral industry of Puerto Rico, Panama Canal Zone, Virgin Islands, Pacific Island Possessions, and Trust Territory of Pacific Islands, 965
 Robertson, J. B., behavior of xenon-133 gas after injection underground, molecular diffusion, materials balance, and barometric pressure effects, 16623
 Robertson, J. L.:
 remarks—
 Oct. 21, 1968, 657
 Mar. 28, 1969, 8250
 Apr. 10, 1969, 8236
 May 22, 1969, 9824
 July 25, 1969, 12638
 Robertson, S. Harry, development of crash-resistant flammable fuel system for UH-1a helicopter, 10554
 Robertson, Stanley M., soil survey, Clarke and Oconee Counties, Ga., 8867
 Robinson, B. P., water resources data for Nevada, 1966-67, water levels and spring discharges, 8378
 Robinson, David J.:
 dynamic analysis of permanent magnet stepping motors, 7271
 NERVA control drum actuator irradiation test program, 13122
 Robinson, Donald C., misalignment detector for axial loading fatigue machines, 7328
 Robinson, Earl W.:
 review and analysis of radium incidents, 6190
 use of radium in consumer products, 6188
 Robinson, Harold:
 monograph on foliar anatomy of genera Connellia, Cottendorfia, and Navia (Bromeliaceae), 16403
 monographic study of Mexican species of Enlilia (Diptera: Dolichopodidae), 17375
 Robots, information robots and manipulators, USSR study, 15935
 Robson, John E., nomination, hearings, 1737
 ROCAP, *see* Regional Office for Central America and Panama.
 Rochester, Minn.:
 flood plain information, 9692
 floods, how to avoid damage, 12510
 Rochester, N.Y., area wage survey, 2114
 Rochino, Avelino P., analytical investigation of incompressible turbulent swirling flow in pipes, 1006
 Rochman, Joan E., trends in graduate enrollment and Ph. D. output in scientific fields 1960-61 through 1965-66, 1199
 Rock, R. L., radiation-ventilation relationships in 6 underground uranium mines, 11377
 Rock anchors, *see* Anchors.
 Rock bolts, *see* Bolts and nuts.
 Rock drilling, exploratory, tracer well construction and testing, and preliminary findings, Geological Survey tracer study, Amargosa Desert, Nye County, Nev., 14360
see also Drilling.
 Rock drills, *see* Drills (tools).
 Rock Island, Ill., area wage survey, 4603

Rock phosphates:

Colombia, preliminary report, with section on phosphate occurrence at Turmeque, 15793

demand in U.S., statistical analysis, 14529

minerals yearbook chapter, 16094

Rock River:

flood plain information, 12475

floodings, Beloit, Wis., how to avoid damage, 12549

Rockaway (oceanographic research vessel):

USCGC, oceanographic cruise, Wilmington submarine canyon, 9198

Rocket launchers, aircraft, procurement, report, 3991

Rocket propellants, *see* Propellants.

Rockets:

ablative rocket engines, development of improved throat inserts, 13067

afterburning in low-altitude rocket exhaust plume, theory, 10253

analysis of maximum range trajectories for rocket-propelled lunar flying vehicles in uniform gravitational field, 17228

chugging to liquid-propellant rocket engines having multielement injectors, application of double-dead-time model describing, 11491

deployed canard surfaces and rocket nose section of Apollo launch escape vehicle, aerodynamic loads, 13051

engines—

design of acoustic liners, Helmholtz resonators evaluated with rocket combustor, 7304

thermocouple technique for measuring hot-gas-side-wall temperatures, 13095

experiments, data catalog, 4760

flight and optimum design, investigation, 4753

flox-propane rocket engine with 1.2 inch throat diameter, design of injectors and ablative thrust chambers, 11496

four-engine clustered nozzle configuration, base flow field at high altitude, experimental investigation, 10115

FW-4D solid-propellant motor on Delta 50 (AIMP-E), flight performance, 7249

graphic method for determining absolute attitude of sounding rocket vehicles, 10118

hydrogen oxygen, effect of injection element radial distribution and chamber geometry on acoustic-mode instability, 14623

large flexible booster, evaluation of a pilot describing function method applied to manual control analysis, 11447

liquid, low-thrust auxiliary-propulsion, precision flow measurement techniques, 4700

erratum, 11433

liquid rocket—

acoustic-mode-instability studies at nominal thrust of 20,000 pounds, interim summary, 2262

longitudinal oscillation (pogo), prevent by use of simplified analytical model in design of pump-inlet accumulators, 14638

meteorological research, agreement with Canada, 11724

meteorological rocket—

network firings, data report (periodical), 2747

research since 1959 and current requirements for observations and analysis above 60 kilometers, 5985

methane-fluorine-oxygen and butane-1-fluorine-oxygen rocket performance, nonequilibrium calculations, 4721

nozzles, use of energy thickness in prediction of throat heat transfer, 13131

nuclear light bulb rocket engine, nuclear studies, 8594

Rockets—Continued

pitch of 1/7-scale model of 2- and 3-stage configuration, aerodynamic characteristics, 14626

propellant, oxygen difluoride-diborane, theoretical nonequilibrium performance, 4722

propulsion motor plume, estimating diameter of plasma, 14746

rocket combustor, characterization of pressure perturbations induced by machine gun, 8652

rocket meteorological radiation shield, entry length, 1019

rocket payloads, scientific, Hall-effect magnetometers, 6919

rocket-ramjet hybrid engines in a lifting reusable second stage, conceptual study, 10135

Saturn, S-IVB-503 stage, accident under Apollo program, GAO review, 8336

Saturn SA-501 S-IVB auxiliary propulsion system flight anomalies, investigation, 10129

Saturn V-launch—

platform-umbilical-tower configuration vibrational analysis of 1/40-scale dynamic model, 1094

umbilical-tower configuration, experimental vibration characteristics of 1/40-scale dynamic model, 1093

vehicle, manual backup control systems, detailed study, 11473

Saturn V, S-IVB panel flutter qualification test, final report, 17222

simulated rocket cooling tube section, variation of convective heat-transfer coefficient, 10117

simulation of package transfer concepts for Saturn I orbital workshop, 10107

small sounding, with two-channel photometer, 5578

solid propellant rocket vehicle, natural frequencies and mode shapes, investigation, 2215

Trailblazer II vehicle, flight measurement of optical radiation from shock-heated air, 2242

two nuclear-rocket cold-flow engine systems, low-frequency flow dynamics, analog computer study, 13104

unmanned, Federal aviation regulations, 14186

Rockford, Ill., area wage survey, 14455

Rockland County, N.Y., population, special census, 16664

Rocks:

black shale and associated rocks, element distribution in some trough and platform types, 9886

crystalline rocks area, hydrogeology of upper Capibaribe Basin, Pernambuco, Brazil, reconnaissance, 11251

descriptive petrography of 3 large granitic bodies in Inyo Mountains, Calif., 5721

elastic moduli of rock at elevated temperatures, 11384

gold in igneous, sedimentary and metamorphic rocks, 5709

Paleozoic black shales and associated rocks, element distribution, 9885

petrology of phosphate nodules at base of Niobrara formation, east flank, Black Hills, S. Dak., 4365

Precambrian elastic and pelitic, southwestern Colorado and northern New Mexico, gold investigations, 14332

rock anisotropy effects, near-surface horizontal stresses, 4645

ultramafic and mafic rocks from Stillwater complex, Mont., analyses, 9894

uniaxial compressive strength, influence of spherical head size and specimen diameters, 4652

upper Cretaceous and lower Tertiary, Berkeley and San Leandro Hills, Calif., 5699

- Rocks—Continued
see also Igneous rocks—Sedimentary rocks.
- Rocky Flats Fluoride Volatility Conference, proceedings, 7677
- Rocky Mount, N.C.:
 flood plain information, 9695
 floods, how to avoid damage, 12511
- Rocky Mountain Forest and Range Experiment Station, publications, list, 3077
- Rocky Mountain Laboratory, brief history of its growth and research activities, 17281
- Rocky Mountain National Park, general information, 14715
- Rocky Mountain States:
 Mountain division—
 annual survey of manufactures 1966, statistics for States, standard metropolitan statistical areas, and large industrial counties, 3829
 truck inventory and use survey, 5206
- Rocky River and Valley, flood plain information, 9686
- Rocky River, Ohio:
 flood plain information, 9686
 floods in Lakewood and Rocky River, Cuyahoga County, Ohio, stay dry by building high, 12512
 Rocky River floods, stay dry by building high, 12512
- Rodenticides, act, administration deficiencies, hearings, 13930
see also Pesticides.
- Rodents:
 domestic rodent control, biological factors, 8800
 effects of rate of delivery of ionizing radiation on LD 50/30 values, 91
 radiation mortality under hypobaric-hypoxic conditions, 11902
 radioprotection with papain, 10532
 rodent control, training guide, series, 8800, 14784
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant, 3716
- Rodger, William, or heirs, relief, 9393
- Rodriguez, Jesus J., relief, 7863
- Rods, dielectric, immersed in plasma, electromagnetic waves on, analysis, 1089
see also Control rods.
- Röntgenography, survey of 170 submariners, extra-alveolar air resulting from submarine escape training, 7198
- Rogers, George B., pricing systems for eggs, 8972
- Rogers, George W., Alaska-Northwest Canada economic activities, analysis of regional, political, and communications aspects of Alaska-Canada development relations, 14195
- Rogers, John F., infrared spectral irradiance measurements in space environment simulator, 11449
- Rogers, Joseph O., jr., nomination, hearing, 10909
- Rogers, Leonard N., relief, 16837
- Rogers, Timmle, *see* Anerum, Timothy L.
- Rogers, William P.:
 addresses, etc.—
 Mar. 27, 1969, 8881
 Apr. 10, 1969, 8883
 Aug. 8, 1969, 16464
 Secretary of State, statement on foreign policy, hearing, 8062
- Rogge, James D., relation of signal light intensity to physiologic and points during +G_x acceleration, 88
- Rogler, George A., pasture productivity of crested wheatgrass as influenced by nitrogen fertilization and alfalfa, 6401
- Rohde, John E., discharge coefficients for thick plate orifices with approach flow perpendicular and inclined to orifice axis, 16199
- Role of bottom-dwelling macrofauna in water pollution investigations, 14791
- Role of medicine for emergency preparedness, 4877
- Role of social security in economic development, 4940
- Rolfe, E., laser doppler velocity instrument, 2187
- Roll, and yaw compensation feasibility study, 4661
- Roll-stability, *see* Stability of aircraft.
- Rollin, S. F., questions and answers about Federal seed act, 9496
- Rolling mills, prospects for computers at rolling mills weighed, USSR study, 11328
- Rollins, Fred R., jr., ultrasonic detection of calcium sulfate scale on metal surfaces, 11284
- Rolls, L. Stewart:
 flight-determined aerodynamic properties of jet-augmented, auxiliary-flap, direct-lift-control system including correlation with wind tunnel results, 10109
 corrected copy, 13070
 flight evaluation of tip-turbine-driven fans for lateral control in hovering VTOL aircraft, 17238
- Rom, Frank E., high-burnup vapor-transport fuel-pin concept for long-life nuclear reactors, 1085
- Romania, *see* Rumania.
- Rome, N.Y., area wage survey, 2113
- Romer, A. Russell:
 foreign trade regulations of—
 Greece, 9210
 Netherlands, 10658
- Romney, George W.:
 addresses, etc.—
 Feb. 17, 1969, 5737-38
 Mar. 11, 1969, 7068
 May 16, 1969, 9942
 Oct. 14, 1969, 17076
 Oct. 20, 1969, 17079
 nomination, hearing, 5430
- Roncador Bank, environment and ecological zonations, 17371
- Ronco, Frank:
 assimilation chamber for—
 measuring carbon dioxide exchange of tree seedlings in laboratory, 14286
 outdoor measurements of photosynthesis of tree seedlings, 14285
 volumeter for estimating quantity of conifer foliage, 9853
- Rondy, Donald R.:
 Great Lakes ice atlas, 11357
 Great Lakes ice cover—
 winter 1962-63 and 1963-64, basic data report, 17158
 winter 1967-68, basic data report, 4610
- Rongelap Atoll, radioactive fallout, gamma dose rates, 5182
- Ronk, Richard M., directory and index of safety and health laws and codes, 12961
- Ronsivalli, L. J., chemistry of radiopasturized seafoods, report, 5175
- Roof supports, *see* Mine props.
- Roofers, employment outlook, 4550
- Roofing:
 asphalt and tar, current industrial reports, 2732
 built-up membranes, laboratory-field comparisons, 4768
 farm buildings, 11865
 felts, variables involved in saturation, 13156
 performance of roofing made with Asplund felts, 7326
 products, hail resistance, 14662, 16223
- Room to roam, recreation guide to public lands, 10035
- Rooney, Richard F., taut wire buoy array for environmental monitoring in AUTECH, 13231
- Roosevelt, Franklin Delano, Postal Station, New York, N.Y., *see* Franklin Delano Roosevelt Postal Station, New York, N.Y.

Roosevelt Library, Franklin D., *see* Franklin D. Roosevelt Library.

Roosevelt National Forest, Rawah Wilderness, general information, 8289

Rope, Federal item identification guides for supply cataloging supplements, 2844

Roper, Clyde F. E.:
illustrated key to families of order Teuthoidea (Cephalopoda), 13425
systematics and zoogeography of world-wide bathypelagic squid *Bathyeuthis* (Cephalopoda: Oegopsida), 13181

Rose, Arthur I., union wages and hours, local-transit operating employees, 8550

Rose, Edwin, improved appearance of power transmission facilities, 14835

Rosebud Reservation:
Sioux Indian, tribal land, sale and exchange of isolated tracts, reports, 13996, 16780
transitional housing experiment, report, 12817

Rosebud Sioux Tribe, *see* Sioux Indians.

Rosebud, Tex., post office dedication (remarks), 1308

Rosen, Beatrice M., utilization of psychiatric facilities by children, current status, trends, implications, 6187

Rosen, Rueben, relief, 9268, 12102, 13959

Rosenberg, Beatrice, facts about day care, 17441

Rosenberg, Herbert H., biomedical research manpower, for the eighties, 6066

Roses:
for the home, 5034
production and sales, etc., 7529, 10500

Rosettes, *see* Medal of Honor.

Rosfeld, A. E., remarks, Nov. 7, 1968, 764

Roshore, E. C., concrete and concreting materials, performance investigation, 11015

Rosin, *see* Naval stores.

Rosoksky, Rose G., influence of MDTA training on earnings, 2104

Rosow, Jerome M., nomination, hearing, 6797

Ross, David, effect of monoamine oxidase and diamine oxidase on norepinephrine and histamine in rat heart, 11903

Ross, Donald C., descriptive petrography of 3 large granitic bodies in Inyo Mountains, Calif., 5721

Ross, Martin, radar-computed rainfall compared with observations from dense network of rain gauges, 10520

Ross, Stanford G., nomination, hearings, 1737

Ross, Thomas G., extent and frequency of floods in Beden Brook basin in Somerset and Mercer Counties, N.J., 15797

Ross, William B., address, Aug. 19, 1969, 14382

Ross Lake National Recreation Area, general information, 14712

Ross Sea, oceanographic cruise, summary, 13241

Rossides, Eugene T., remarks, May 21, 1969, 10440

Rossmoor Leisure World, developments, Federal Housing Administration's decision not to require builder's cost certification, GAO report, 5686

Rostafinski, Wojciech, analytical method for predicting performance of centrifugal pumps during pressurized startup, 2261

Rosters, National Institutes of Health, members of public advisory groups, councils, committees, boards, study sections, 4786, 11542
see also names of departments, etc., issuing rosters.

Rostvedt, J. O., summary of floods in United States during 1963, 4371

Roswell, N. Mex., vapor compression test bed plant, annual report, 3963

Rot, *see* name of rot.

Rotary drills, *see* Drills (tools).

Rotation:
bodies rotating relative to uniform magnetic field, experimental determination of eddy-current torques, 11442
collision, comparison of numbers obtained from different definitions, 13108
flight investigation of lightweight helicopter to study feasibility of fixed-collective-pitch autorotations, 11476
pump cavitation performance for various liquids, liquid temperatures, and rotational speeds, method for predicting, 13096
rotating externally pressurized, air journal bearings, experiments, 10123, 11452
rotating space station stabilization criteria for artificial gravity, 17221
rotatory inertia effects in vibrating beams, approximate theory, 11407

ROTC, *see* Reserve Officers Training Corps.

Air Force—Reserve Officers Training Corps, Army.

Roth, Emanuel M.:
compendium of human responses to aerospace environment, 1024-26, 2188
rapid (explosive) decompression emergencies in pressure-suited subjects, 2199

Roth, J. Reece:
experimental observation of oscillations described by continuity equations of slightly ionized deuterium, neon, and helium gas, 2250
possible applications of continuity-equation plasma oscillation to pulsars and other period astrophysical phenomena, 7264

Roth, William V., Jr.:
listing of operating federal assistance programs, 370
print as House document, report, 15392
report, 15246

Rothe, William E.:
air bearing systems for grossly mismatched surfaces, 1546
external drive system for all-attitude air-bearing research and training simulator, 1547

Rothfarb, Bill, design of economical offshore natural gas pipeline systems, 12443

Rotor planes, *see* Helicopters.

Rotorcraft:
airworthiness standards, transport category, Federal aviation regulations, 9740
briefs of accidents involving U.S. general aviation, 16287
axial-flow compressor rotor, effects of 3 outlet-annulus area blockage configurations on performance, 17249
blade-motion stability boundaries for articulated rotor, parametric study, 6002
conversion from wing lift to rotor lift on composite-lift VTOL aircraft, wind tunnel and analytical study, 11471
flexible rotor blade, dynamic response to concentrated force moving from tip to root, 16167
foil-bearing rotor support system, study, fabrication and testing, 2184
full-scale rotor blade stopped in flight, aerodynamic and aeroelastic characteristics, 13676
helicopter rotor noise computer program, description, 6454
helicopters—
downwash effects, 12680
method for analyzing aeroelastic stability in forward flight, 14568
studies of noise, 6453
high Mach number compressor rotor blade performance comparisons, 2207
high-performance turboalternator, 7230
lifting rotors in hover and forward flight, theory for predicting rotational and vortex noise, 10079
nature of helicopter rotor blade boundary layers, exploratory study, 16602

Rotorcraft—Continued

- passive helicopter rotor isolation using Kaman dynamic antiresonant vibration isolator (DAVI), 10553
 - plain rotor blade with plough type vortex generators, performance evaluation, 8599
 - rigid—
 - dynamics, 16125
 - on flexible foundations, critical-speed analysis, 1084
 - corrected copy, 13066
 - rotor instability at high forward speeds, prediction, 7668-70, 9053-54
 - rotary kinetic fluid motors or pumps, classification definitions, 13312
 - semirigid full-scale, operating at high advance ratios, wind tunnel investigation, 6461
 - tandem rotor blade, performance evaluation, 2205
 - UH-1 tail rotor assembly, elastomeric bearings, improved concept, 5130
- Rough, Robert L., rotary coring of Appalachian area oil-producing formations with mud or air, 7212
- Roughness, *see* Surfaces.
- Rourke, J. Phillip, beef cattle industries of Central America and Panama, 11155
- Rouse, Carl A., tables of ionization equilibrium equation of state at stellar temperatures and densities, 6142
- Rouse, George C., structural model tests of arch dams, Glen Canyon and Morrow Point Dams, 11652
- Route men, *see* Salesmen and salesmanship.
- Rowan, Helen, The Mexican-American, paper, 9179
- Rowe, A. J., evaluation of Goddard Research and Engineering Management Exercise simulation, 4685
- Rowe, J. J., determination of gold in geologic materials by neutron activation analysis using fire assay for radiochemical separations, 739
- Rowland, J. A.:
 - copper, 935
 - in 1967, supplement, 7204
- Rowland, Richard G., relation of scale characteristics to river of origin in four stocks of chinook salmon in Alaska, 5305
- Roy, Rob, adaptive simulation using mode identification, 1009
- Royal, T. M., investigation of thin film oxygen partial pressure sensors, 1010
- Royall, Willis C., jr., trapping house sparrows to protect experimental grain crops, 13469
- Royalties, royalty income, tax information, 8436
- Royster, Dick M.:
 - hot-salt-stress-corrosion cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium-alloy sheet, 16170
 - tensile properties and creep strength of 3 aluminum alloys exposed up to 25,000 hours at 200° to 400° F. (370° to 480° K), 4736
- RPO employees, hearing, 9489
- RRB, *see* Railroad Retirement Board.
- RSFSR, *see* Russian Soviet Federated Socialist Republic.
- Rubber:
 - Industry in Puerto Rico, data pertinent to review of minimum wage rates, 13528
 - nonrubber footwear, Tariff Commission report, 4986
 - O-rings, visual inspection guide for, military standard, 541, 10952
 - products—
 - manufacturing, industry trend, 7729
 - terms for visible defects, military standard, 16925
 - reverted rubber friction, laboratory experiments, 14577

Rubber—Continued

- rubber-processing chemicals, production and sales, 16495
 - sheet material, visual inspection guide, military standard, 5499
 - supply and distribution for U.S., current industrial reports, 2732, 9141
 - working machinery, industrial plant equipment handbook, 6828
- Rubella, *see* Measles.
- Rubenstein, Lester S., effect of size on tensile strength of fine polycrystalline nickel wires, 1104
- Rubinstein, D., statistical exposition of guide manual for reliability measurement program, 1272
- Ruckelshaus, William D., nomination, hearing, 5455
- Ruffed grouse, *see* Grouse.
- Ruggeri Robert S., method for prediction of pump cavitation performance for various liquids, liquid temperatures, and rotational speeds, 13096
- Ruggiero, Cosmina, relief, 6610, 10834, 12092
- Ruggles, Gilbert S., comparison of synoptic temperature-depth observations in Tongue of Ocean, 13227
- Rugs:
 - current industrial reports, 2733
 - Wilton, Brussels, velvet and tapestry carpets and rugs, Tariff Commission report, 1472
- Ruhnke, Lothar H., electrification processes in warm rain clouds, 9720
- Rules, *see* names of courts, commissions, etc., issuing rules—*also* subjects.
- Rules and Administration Committee, Senate:
 - calendar, 3066
 - investigations and studies, privileges and elections, expenses, report, 5418
 - reports, 440-441, 443-444, 447, 1727, 4048-67, 5400-21, 6751-52, 6756-59, 6761, 6772, 8021-26, 8030-33, 9404, 9417-23, 10851-853, 12275-279, 15363-364, 15386-389, 15391-392, 16857-861
 - Senate, 91st Cong. (description), 8094
- Rules Committee, House:
 - hearings, 13940
 - investigations and studies, expenses, report, 6667
 - reports, 375, 5346-52, 5356, 6647-53, 6662, 6664-66, 6679, 6687, 6689, 6698, 7886, 7891, 7893-95, 7922-23, 9289-90, 9306-07, 9312, 9321-23, 10719, 10725-726, 10732, 10735-738, 10742, 10745, 10760-762, 12158, 12161-165, 12189, 13908-909, 15229, 15234-236, 15242, 15251-254, 15259-261, 15266-267, 15275-277, 15282-284, 16772, 16786-787, 16791-792, 16795, 16798
- Rum, denatured, distribution and use, code of Federal regulations, 11298
- Rumania:
 - capsule facts for Armed Forces, 3727
 - cultural relations—
 - exchanges, agreement, 6296
 - libraries, establishment and operation, agreement, 17409
 - economy, basic data, 3897
 - Hungarians in Rumania, bibliographical list, 13860
 - print as House document, report, 381
 - mineral industry, minerals yearbook chapter, 13019
 - plant quarantine import requirements, 17
 - visas, abolition of certain visa fees, agreement, 11721
- Rummler, Donald R.:
 - design, fabrication, and tests of tubular beryllium and Be-38A1 alloy truss-type structures, 11469
 - mechanical properties and column behavior of—
 - thin-wall Be-38A1 alloy tubing, 8629
 - thin-wall beryllium tubing, 1069

- Rumsfeld, Donald, nomination, hearing, 9485
- Rund, Nadine H.:
demographic and socio-cultural characteristics—
off-reservation service population, Sells Service Unit, Ariz., 13337
Papago Indian reservations, Ariz., 10298
- Runge-Kutta method, *see* Equations.
- Runkle, Charles J., radiation resistance of cylindrical shells, 17203
- Runoff:
agricultural watersheds, improvements in automatic sampling equipment used to determine extent of pollution, 11787
effect of heavy late-fall precipitation on runoff from chaparral watershed, 9852
snowpack accumulation, on small Arizona watershed, observations, 5676
- urban—
storm water runoff, selected abstracts, 12663
water pollution aspects, 9838
- Runway marker lights, *see* Markers.
- Runways (aeronautics):
diamond runway centerline, simulation test at Arcata, Calif., 15692
experimental snow runway pavement in Antarctica, 3749
grooved runways, general-aviation pilot reactions and opinions on, 14591
installation details for runway centerline and touchdown zone lighting systems, 11047
runway traction (paper), 13647
snow, design criteria, 3750
three-track runway and taxiway profiles measured at international airports A and B, 16187
- Ruos, James L., mourning dove status report, 6256
- Rural communities:
building rural America through farmers home insured notes, 11884
career opportunities, with Farmers Home Administration in building new rural America, 9734
creation of job opportunities through industrialization and conservation of our resources (remarks), 60
delinquency today, guide for community action, 17377
Farmers Home Administration strengthens them, 13600
fires, prevent 'em or fight 'em?, 8987
forest taxation and preservation of rural values in New York, 6999
Future Farmers of America and civil defense programs, 15131
Grange and civil defense programs, 13782
housing programs, extend, reports, 15297, 15371, 16792
manpower policy, 2105
planning for rural industry, 7609
population trends, hearings, 15309
rental & co-op housing, loans, 7607
rural area, evaluating economic structure, 12407
rural Indian Americans in poverty, 15617
rural opportunities, war on poverty (periodical), 3403
survival preparedness in nuclear attack or natural disasters, programed instruction, 5667
tax credits to stimulate job opportunities in new or expanded industrial and commercial establishments, hearings, 10896
- Rural Community Development Service:
appropriations, 1970—
hearings, 7945
reports, 9311, 12254
- Rural development programs:
newsletters, 3402
rural community action through economic development 12406
- Rural electricity, *see* Electricity.
- Rural electrification, *see* Electricity.
- Rural Electrification Administration:
Administrator, nomination of David A. Hamill, hearing, 5425
appropriations, 1970—
hearings, 7945
reports, 9311, 12254
bulletin inhibiting political activities by its borrowers and their employees, hearing, 13932
career opportunities for seniors majoring in business administration, accounting, etc., 8841
careers electric engineering, telephone engineering, 7443
financed generating plants, 8843
materials acceptable on—
electrification systems, of REA borrowers, lists, 3075, 6220, 8842
telephone systems, list, 3076
publications, index, numerical list, etc.—
Rural Electrification Program, 7444
Rural Telephone Program, 6219
REA borrowers and employees, political activities, inhibit, bulletin report, 16779
REA borrowers, energy purchased, 1968, annual report, 10355
REA bulletins, 4918, 6221, 17365
report, 14850
statistical bulletin, quarterly, 3359-60
statistical reports—
rural electrification borrowers, 2441, 17364
rural telephone borrowers, 4917
work order procedures for electric borrowers, 6221
- Rural families, *see* Families.
- Rural fire defense in wartime, mission, organization, coordination, 11881
- Rural fires, prevent 'em or fight 'em?, 8987
- Rural housing, *see* Housing.
- Rural mail carriers, *see* Mail carriers.
- Rural population, people of rural America, 3862
- Rural poverty, *see* Poverty.
- Rural redevelopment, economic situation of southwestern North Carolina renewal area, 569
- Rural telephone bank:
establish—
hearings, 6702
report, 6688
- Rural telephone program, *see* Telephone.
- Ruskin, Robert E., measurement of atmospheric dewpoint from aircraft, 1262
- Russell, Fred J., nomination, hearing, 5429
- Russell, Harold, remarks, Oct. 25, 1968, 1319
- Russell, J. Thomas, bibliography of military history, selected annotated listing of reference sources in U.S. Military Academy Library, 14519
- Russellville, Ark.:
flood plain information, 9663
floods, how to avoid damage, 12513
- Russia, *see* Union of Soviet Socialist Republics.
- Russian accessions, Library of Congress monthly index, 3136
- Russian literature:
accessions in Atmospheric Science Library and Geophysical Sciences Library, guides, 5581-82, 12575
literary events, USSR news, 2066
- Russian radioecology bibliography of Soviet publications with citations of English translations and abstracts, 3808
- Russian Soviet Federated Socialist Republic:
Murmansk Oblast national economy surveyed, USSR study, 5828
public health organizations, tacks, 5840
RSFSR economic plan, budget proposed for 1969, 4444
- Russian thistles, *see* Thistles.

Rustavi, Georgian SSR, Mzhavanadze bestows honor on Rustavi komsomol, 4453
 Rutaceae, *see* Oranges.
 Rwanda:
 background notes, 11699
 economic trends and their implications for United States, 8476
 Rx label basis for all prescribing information, 5661
 Rx legend, FDA manual for pharmacists, 8268
 Ryan, J. Patrick:
 gold, 937
 platinum-group metals, 16095
 silver, 984, 17193
 Ryan, James A., analysis of light scattering data from polymer solutions, 7305
 Ryan, John D., nomination, hearing, 15416
 Ryan, Michael J., batch-feeding studies on high-solids activated sludge for treating human waste, 3708
 Ryan, Patrick E., generalized experimental investigation of hot gas recirculation and ingestion for jet VTOL aircraft, 1003
 Ryan, Robert S., influential aspects of atmospheric disturbances on space vehicle design using statistical approaches for analysis, 4708
 Rye:
 crop production, 2506
 futures trading and open contracts, 2931
 Rygg, G. L., overseas shipping tests of California citrus on pallets and in containers, interrelations between transit temperatures, biphenyl pad placement, biphenyl content and fruit condition, 16547
 Rynearson, Garn A., mineral industry of Argentina, 2133
 Ryttonen, Aili, Finnish graded reader, 1441
 Ryukyu Islands, appropriations, 1970, hearings, 15299

S

S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant in rodents and primates, 3716
 S-IV vehicles, *see* Spacecraft.
 Sa Cha Bae, *see* Bae, Sa Cha.
 Sabatini, Omero, survey of agriculture in Ethiopia, 12417
 Sabec, Edwin J., relief, 9260
 Sabin, Francene, exploring world around us, 12431
 Sabine River and Valley
 basin, flood control, comprehensive study, hearing, 10803
 flood plain information, 12476
 Sabo, Julius J., National Center for Radiological Health, research projects supported by grant funds, 4887
 Sabotage:
 industrial defense against civil disturbances and sabotage, 11600
 internal security laws, etc., study and investigation, report, 5413
 Sach, Milton S., desalting plants inventory report, 795
 Sachs, Murray B., speech intelligibility in stationary multipath channel, 14515
 Sacks, *see* Bags.
 Sacramento, Calif., oil spillage and flood damage, hearings, 7970
 Sacramento River and Valley:
 basin subregion, Calif., ground-water data, 12773
 net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use of acoustic velocity meter for measurement, 14372
 Sadler, S. Gene, theory for predicting rotational and vortex noise of lifting rotors in hover and forward flight, 10079
 Sadowski, Henry, investigation of use of nuclear radiation in preparation of optical maser materials, 5162

Safe, sanitary home refuse storage, 6205
 Safe work guide, Department of Labor safety training programs, SWG LS series, 5891, 17147-151
 SAFEGUARD antiballistic missile program, *see* Missiles.
 Safeguard, what are the true answers? 8781
 Safeguarding machinery, 17152
 Safeguards and Materials Management Office, research and development for Safeguards, 3814
 Safeguards systems analysis of nuclear fuel cycles, 16631
 Safety, Division, of Health and, *see* Health and Safety Division.
 Safety at sea, *see* Safety of life.
 Safety belts, impact injury to pregnant female and fetus in lap belt restraint, 10580
 Safety equipment and appliances:
 Federal item identification guides for supply cataloging, supplements, 2844
 minimum security devices and procedures for Federal reserve banks and State member banks, 4279
 protective clothing and equipment, Army pamphlet, 167
 safety equipment manual, Naval Material Command, 16319
 Safety in the air, *see* Safety of life.
 Safety of life:
 accident prevention, Health, Education, and Welfare Department program (remarks), 11635, 16335
 aerospace maintenance safety, 2557
 air safety—
 aerospace safety (periodical), 2559
 air taxi operations (remarks), 2324
 collision avoidance, bibliography, 4231
 naval aviation safety review, 2598
 alcohol—
 and highway safety countermeasures, 16242
 problems and transportation safety, need for coordinated efforts, 11556
 AMC safety manual, 10540
 artificial islands and fixed structures on outer continental shelf, rules and regulations, 3889
 as you travel, ask yourself, how safe are motel pools? 8799
 at sea, disclosure of and upgrading safety standards (address), 1870
 aviation safety programs (address), 13204
 be safe, be seen, let's shed some light on pedestrian safety, 14781
 building trades and construction industry in Federal and federally financed construction projects, promote—
 hearings, 10778
 law, 15202
 reports, 9293, 9322, 12269
 burn proof, save a life today, 8269
 chemistry for safety man, 886
 Coast Guard Auxiliary—
 courtesy examination decal, make this part of your boat, 300
 proud tradition, worthy mission, saving lives, 5284
 collisions of radar-equipped merchant ships, study and preventive recommendations, 14720
 construction by contract, Reclamation Bureau safety standards, 1363
 construction safety impact of model cities program (remarks), 778
 control hazardous substance, poisons, pesticides (remarks), 13365
 dangers of flammable clothing, 13336
 development of safety movement, history, 14449
 DoD contractors' safety manual for ammunition, explosives and related dangerous material, 1784

Safety of life—Continued
 driver, traffic safety magazine of Air Force, 2774
 electrical facilities safe practices handbook, Air Force pamphlet, 13615
 electrical shock hazards, control, 885
 electronic products radiation hazards, review, hearing, 12233
 elements of safety program, occupational safety aid, 14450
 fatal and injury accident rates, 1967, on Federal-aid and other highway systems, 6216
 Federal aid and highway safety programs, hearings, 13939
 Federal coal mine health and safety act of 1969, reports, 15390, 16789, 16795
 Federal construction safety, promote, hearings, 9482
 fire safety measures for aircraft fuel systems, conference report, 4288
 1st Transportation Department intradepartmental safety seminar, proceedings, 11755
 gas and liquid pipeline safety, hearing, 6720
 glovebox fire safety application—
 fire resistant glove materials, evaluation, 13720
 glovebox window materials, 6474
 mechanical vacuum pumps, control and reduction of oil mists, 13719
 good housekeeping for successful safety program, occupational safety aid, 14446
 Government-industry system safety conference, 4659
 highway-railway grade crossing safety program, 13508
 highway safety—
 act of 1966—
 administration, annual report, 6226, 12137-138
 estimate of cost of carrying out provisions under act, 417
 programs implementing requirements, review, oversight hearings, 14060
 and alcohol, 1968 report, 11750
 design and operating practices, handbook, 633, 4254
 design and operations, freeway signing and related geometrics, hearings, 1709
 literature, announcement of recent acquisitions, 2959
 compilation, 14681
 subject category index, 16240
 national standards—
 project descriptions and significance to State programs, 4772, 11534
 State projects initiated and conducted, resume, 4773
 program, standards, 7340
 research and test facilities, requirements, 11757-758
 State programs, problems arising from Federal grants, GAO report, 11221
 structural systems in support, 14821
 industrial safety—
 environmental and chemical hazards series, 886
 fundamentals of accident prevention, 17143
 using injury statistics, 16008
 Labor Dept. training programs—
 how to inspect chart HTIC LS series, 5892-93
 occupational safety aid, OSA LS series, 14446-450, 16010, 17152-153
 safe work guide, 5891, 17147-151
 latest word in aviation (address), 11558
 life safety from fire, guide for housing the elderly, 785
 life saver card, oxygen is dangerous, 2106
 longshoring, regulations, 11333
 maritime safety data for shipyards, 14443-445

Safety of life—Continued
 maritime safety digest (periodical)—
 longshoring, 3103
 shipyards, 3104
 midair collisions in U.S. civil aviation, 1968, special accident prevention study, 13206
 mine safety—
 coal mine safety and health practices in Great Britain, new developments, investigations and study, report, 7893
 coal miners, improve working conditions—
 hearings, 9480, 10775, 10912, 12213, 12310, 14053, 15470
 reports, 15390, 16789, 16795
 Federal coal mine health and safety act of 1968, recommendations, 365
 legislation on safety of coal mine workers, message from the President, 6582
 mine safety conference (statement), 2014
 mineral industries—
 by States, injury experience and worktime, 5935
 injury experience, employment and worktime, 17176
 motor vehicle safety—
 act of 1966, administration, annual report, 6327
 compliance with Federal motor vehicle safety standards, 16248
 defect recall campaigns reported to National Highway Safety Bureau, 3150
 standards, planning for quality (remarks), 16241
 standards with amendments and interpretations, 10188
 national traffic and motor vehicle safety act of 1966—
 administration, annual reports, 12137-138, 13506
 amend definition of motor vehicle equipment—
 hearings, 15427
 reports, 12160, 15253
 natural gas pipeline safety act of 1968, administration, annual report of Secretary of Transportation, 13505
 nuclear safety, technical progress review, 3208
 occupational safety—
 aid, 8545, 12962
 and health problems (remarks), 13366
 handbook, 16983
 offsite safety programs for underground nuclear detonations, technical discussions, 13699
 omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
 on guard, Bureau of Motor Carrier Safety bulletin, 16116
 outdoor safety tips, 53
 particle accelerator safety manual, 6192
 passenger vessels meeting safety standards, disclosure of construction details, eliminate—
 hearing, 13934
 report, 15291
 peripheral vision cues, effect on pilot performance, 5194
 pesticide safety in your home, 3664
 Project Gasbuggy, operational safety aspects, 7700
 public information and highway safety, 16250
 publications, price lists, 4866, 4868
 questions of safety involving uses of lindane pesticide pellets, GAO review, 5690
 radiation—
 control for health and safety act of 1968, administration, annual report, 10694

Safety of life—Continued

- radiation—continued
 - safety recommendations for X-ray diffraction and spectrographic equipment, 6193
- radiological emergency procedures for non-specialist, 5190
- radium incidents, review and analysis, 6190
- railroad industry problems (remarks), 7365
- reactor safety, literature search, 13715
- read before driving, safety driving practices, booklets, 4774, 16251
- reclamation safety news (periodical), 3370
- recreational boat accidents, boating safety programs, and preventive recommendations, study, 13207
- recreational boat safety, reports, 2519, 9300
- right-of-way stopping, techniques for passing, 10611
- road checks, motor carriers of property, 4657, 11397
- safe lifting, 14447
- safe operation of particle accelerators, recommendations, 4884
- safeguarding machinery, 17152
- safeguards, nuclear materials, research and development, 3814
- safety aids decision-making, progressive new approach to systems safety management, 5757
- safety and fire protection bulletin, VA., 3404
- safety and special radio services, FCC applications and actions, reports, 2826
- safety and survival in an earthquake, 5724
- safety digest, AMC pamphlet, 3405
- safety for motor vehicles in use, 11759
- safety in industry—
 - mechanical and physical hazards series, 16007, 17142, 17144-146
 - safe use of hand and portable power tools, instructor outline, 5890
- safety inspecting for detection, analysis, correction, occupational safety aid, 12962
- safety of life and health laws and codes, directory and index, 12961
- safety of life and third-generation jets (address), 11925
- safety of underground nuclear testing, summary report, 7714
- safety program planning, construction industry occupational safety aid, 17153
- safety review, Navy Department (periodical), 3406
- safety standards—
 - ammunition and explosives, DoD manual, 12354
 - periodical, 3407
 - status, 888
- safety studies for 1000 MWe sodium-cooled fast reactor, follow-on study, task report, 16622
- shipbuilding regulations, 887
- small boat safety, regulations, etc., hearings, 1707
- State and community highway safety funds for 1970, formula for apportionment, provide, oversight hearings, 14060
- State safety code comparison studies, 7169
- supervisory responsibility for safety, 14448
- system safety program for systems and associated subsystem and equipment requirements, military standard, 15527
- systems approach to accident investigation (paper), 17297
- tips for fishermen, 301
- Tor-Shok reusable energy absorbing protective barrier, 18422
- towing vessel safety and accident preventive recommendations, study, 16288

Safety of life—Continued

- traffic and motor vehicle safety act of 1966—
 - administration, annual report, 6327
 - amend to require notification to purchasers of defective tires, hearings, 9361
 - implementation, hearing, 5433
 - traffic codes and laws, enforcement, 16247
 - traffic safety, affect of physical condition on sight sensors, home study driver course, 9163
 - who needs safety training?, 8545
 - youth camp safety survey act—
 - hearing, 12216
 - report, 9320
- see also* Accidents.
- Safety officers, minerals industries, examination announcement, amendment, 12037
- Safford, Lawrence O., trees and shrubs of Penobscot Experimental Forest, Penobscot County, Maine, 17043
- Saguaro, description, growth characteristics, etc., 17292
- Saguaro National Monument, general information, 17292
- Sala, Joseph C., fuel considerations in U.S. supersonic transport program, 12587
- Sailing directions:
 - Africa, southwest coast, 14728
 - Australia—
 - east coast, change, 8748
 - north and west coasts, change, 6123
 - south coast, change, 8749
 - southeast coast, change, 4821
 - Baltic Sea, changes, 2330, 6118, 13262
 - Bay of Biscay, change, 1240
 - British Columbia, change, 14726
 - Central America and Mexico, east coasts, change, 7369
 - England—
 - east coast, change, 6116
 - south coast, changes, 1239
 - England and Wales, west coasts, change, 6115
 - Greenland—
 - east, and Iceland, change, 17300
 - west coast, 4819, 17299
 - India, west coast, change, 16300
 - Ireland, change, 2328
 - Japan, southern, change, 10235
 - Java, Lesser Sundas, south, southeast, and east coasts of Borneo and Celebes, 4820
 - Kattegat and The Sound, change, 1241
 - Labrador and Hudson Bay, change, 1241
 - Malacca Strait and Sumatra, change, 1242
 - Mediterranean, 2331, 7372, 8746-47
 - Mexico and Central America, west coast, 10232
 - New Guinea, change, 6122
 - New Zealand, change, 1243
 - Newfoundland, change, 1238
 - North Sea, eastern shores, change, 6117
 - Norway, southwest coast, 6119, 10233
 - Nova Scotia, change, 14727
 - Pacific Islands, changes, 1244, 4822, 6124
 - Persian Gulf, change, 2332
 - Philippine Islands, changes, 2333, 4823
 - Red Sea and Gulf of Aden, etc., change, 6120
 - St. Lawrence Gulf and River, change, 6113
 - Scotland—
 - north and east coasts, change, 2329
 - west coast, change, 7371
 - Siberia, east coast, change, 10236
 - Skagerrak, northern and eastern shores, change, 8745
 - Soenda Strait and western and northeast coast of Borneo, change, 6121
 - South America, changes, 6114, 16299
 - South China Sea, western shores, changes, 6125, 13263
 - USSR, northern, 10234
 - West Indies, change, 7370
- Salmir! scurens, *see* Monkeys.
- Sainsbury, C. L., tin resources of world, 8341
- St. Christopher, *see* Leeward Islands.

St. Croix River, Maine, to Little River, S.C., light list, 5280

St. Francis County, Ark., community profile, 15598

St. Francis River :
flood control, engineers report—
departmental edition, 4212
document edition, 3947

St. George, R. A., subterranean termites, their prevention and control in buildings, 3638

St. Johns River, flood plain information, 9687

St. Lawrence County, N.Y., talc deposit, new locality, 7041

St. Lawrence Gulf, sailing directions, change, 6113

St. Lawrence River and Valley :
basin, water pollution problems and improvement needs, 9839
sailing directions, change, 6113

Seaway—
pilotage services, agreement with Canada, 16474
traffic report, 7445
surface water basin, records to Sept. 30, 1967, index, 737
surface water quality of basin, 12802

St. Lawrence Seaway, see St. Lawrence River and Valley.

St. Lawrence Seaway Authority, traffic report of St. Lawrence Seaway, 7445

St. Lawrence Seaway Development Corporation :
appropriations, 1970, hearings, 16810
audit reports, 6587, 7026
traffic report of St. Lawrence Seaway, 7445

St. Louis, Mo. :
accounts and deposits in all commercial banks in district, summary, 9772
air pollution, dispersion study, analysis, 7425
aircraft accident, 14717
area wage survey, 12970
community action program, effectiveness and administration, GAO report, 14307
data tabulations and summaries, continuous air monitoring, National Air Surveillance Networks—
1964 projects, 14797
1965 projects, 16358
1967 projects, 16360
harbor sedimentation problem, records, summary and analysis, 12789
Mississippi River and tributaries, stages and discharges in district, 11003
National Commission on Urban Problems, hearings, 1312
work experience and training project, administration and effectiveness, GAO report, 12730

St. Louis County, Mo. :
community action program, effectiveness and administration, GAO report, 14307
work experience and training project, administration and effectiveness, GAO report, 12730

St. Marks, Fla. :
Gulf Intracoastal Waterway, St. Marks to Tampa Bay, engineers report—
departmental edition, 595
document edition, 366

St. Marks National Wildlife Refuge, general information, 17394

St. Paul, Minn. :
Air Quality Control Region, report for consultation, 10334
area wage survey, 10026

St. Petersburg, Fla., area wage survey, 2119

Salad dressing :
and related products—
current industrial reports, 12004
industry report, 11978

Salamanea, N.Y. :
flood plain information, 9662
floods, how to avoid damage, 12523

Salaries :
and selected characteristics of U.S. scientists, 4816
certain officers and employees of organizations funded under Economic Opportunity Act, report, 5328
classified and postal salary systems compensation, hearings, 12243
Congress, members, and Vice President of United States, increase salaries—
law, 16733
reports, 6656, 8029, 10849
deferred executive compensation, tax reform hearings, summary of testimony, 15342
earnings data pertinent to review of salary tests for executives, administrative and professional employees, 10451
employee compensation, 1960, in private nonfarm economy, 14458
expert transcribers to official reports, increase compensation, report, 377
Federal agencies, principles and procedures, GAO guidance manual, 14302
Federal blue-collar workers, new approach to setting pay, 8562
Federal classified and postal employees, increases, 3997, 13938
Federal employees—
pay comparability system act of 1969, summary and text of bill, 13937
salary comparability act of 1969, implementation, reports, 15265, 16787
Federal pay rate adjustments, message from the President, 10695
Government officials and employees—
bimonthly statistics, 2550
classification laws, compilation, 5317
Federal personnel manual supplement, 2863
pay comparability procedures, how white-collar salaries in Federal service are tied to wage rates in private industry, 5912
pay structure of Federal civil service, 12055
salary supplement to examination announcements, 9192
higher education, 12434
House of Representatives—
employees, per annum gross rate of pay of certain positions, report, 15240
Members, funds for salaries, transfer within Offices of Clerk and Sergeant at Arms, report, 9324
personnel, payment out of contingent fund, report, 6680
modernizing military pay, quadrennial review of military compensation, report—
active duty compensation, 555, 10958
military estate program, 12374-375
National Zoological Park Police, revise pay structure—
law, 12119
reports, 9298, 10853
overpayments to certain employees of Reclamation Bureau, relief, report, 450
professional, administrative, and technical pay, 1968, in New York State, 11355
professional, administrative, technical, and clerical pay, national survey, 4597
President of United States, increase, law, 6561
salary reform for top officials of legislative, judicial, and executive branches, recommendations, message from the President, 3971
scientists and engineers engaged in research & development, 1968 national survey of compensation, 9082
Smithsonian Institution, additional super-grade positions, rates of compensation, establish, hearings, 12318

INDEX 1969

- Salaries—Continued
State, salary ranges of positions in employment security, etc., 762, 1980, 11259
see also Wages.
- Salem, Va.:
flood plain information, 12464, 12474
floods—
how to avoid damage, 12509
Salem Creek, how to avoid damage, 12534
- Salem County, N.J., soil survey report, 11678
- Salerno, Italy, Salerno to Cassino, United States Army in World War II, 16071
- Sales:
Agricultural Stabilization and Conservation Service reports, 3410
automobile occupations, employment outlook, 4478
credit sales by dealers in personal property, tax information, 8426
department store sales, selected areas, special current business reports, 3451
export, promotion announcements, 2810
firm electric power for resale, 1965-67, by private electric utilities by Federal projects, 15719
Government directory, 4926
installment and deferred-payment sales, tax information, 12834
large corporations, quarterly report, 3409
tax information on—
sales of business, 8450
sales and exchanges of assets, 8438
sales and other dispositions of depreciable property, 12838
selling your home, 8452
water and sewer bonds, 665
see also names of commodities, etc.
- Sales finance companies, *see* Finance companies.
- Salesmen and salesmanship:
employment outlook—
automobile salesmen, 4478
real estate agents, 4542
retail stores, wholesale trade, manufacturers', 4546
routemen, 4500
securities salesmen, 4548
how to sell to Commerce Department, 6539
pitchman's pitch to pitchmen (address), 16643
selling in—
Austria, 7799
Belgium, 15171
Chile, 10653
East Africa, 9206
France, 9204
Netherlands, 3898
Spain, 7501
Venezuela, 10645
training retail salespeople, bibliography, 1378
- Salespeople, *see* Salesmen and salesmanship.
- Saleswomen, *see* Salesmen and salesmanship.
- Salicylates, chronic administration, effects, proceedings of conference, 4782
- Saliga, Thomas V.:
comparison of sequential decoding metrics by computer simulation, 4751
log-a-posteriori probability metric for use in sequential decoding, 8609
- Saline County, Ark., community profile, 15599
- Saline County, Mo.:
community action program, effectiveness and administration, GAO report, 11207
Neighborhood Youth Corps program, effectiveness and administrative efficiency, GAO report, 11213
work experience and training project, administration and effectiveness, GAO report, 12728
- Saline water, *see* Sea water—Water.
- Saline Water Office:
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793
press releases, 3323
report, 9954
- Salinity:
Columbia River, estuary verification model studies, 5572, 16969
East China Sea, 10215
effects on disposal of effluents from desalination plants, 9973
Sea of Japan, 13220
tolerances of certain tropical soils and relationships between sodium ion activities and soil physical properties, 8419
Yellow Sea, 13218
- Saliva:
parotid fluid—
cortisol and cortisone, 16573
specific gravity, 3699
salivary acid-base levels during exposure to elevated carbon dioxide atmosphere, 5929
salivary thiocyanate secretion during fleet ballistic missile submarine patrol, study, 8573
unstimulated human parotid fluid—
effects of atropine on composition, 15018
specific gravity and osmolality, 15021
whole saliva and dental calculus in submariners, study, 11374
- Sallas, Gustav A., labor law and practice in Dominican Republic, 2107
- Salmon:
Abernathy diet, tests of vitamin supplements and formula changes, 10401
adult pink, transplanting to Sashin Creek, Baranof Island, Alaska, and survival of their progeny, 13822
Columbia River—
basin, cost incurred to preserve as source of salmon and steelhead trout, GAO report, 12732
recent advances in artificial culture, 6550
fish passage research, review of progress, 1666
fisheries, agreement with Japan, 6292
Pacific, identification by scale characteristics, 16712
pink—
Alaska's fishery resources, 6549
transplanted, return and behavior of adults of 1st filial generation, survival of their progeny, Sashin Creek, Baranof Island, Alaska, 16715
quinidine as anesthetic for Atlantic salmon, 10392
relation of scale characteristics to river of origin in 4 stocks of chinook salmon in Alaska, 5305
sockeye, virus disease, 11685
spawning areas and abundance of Chinook salmon in Columbia River basin, past and present, 1670
- Salmon Falls Creek, water resources of basin, 5728
- Salmonella:
surveillance, National Communicable Disease Center—
annual summary, 16362
reports, 10325, 11622
treatment of poultry with ionizing radiations to destroy salmonellae, 7687, 7713
- Salmonidae, efficacy of methylpentynol as anesthetic on 4 salmonids, 10394
- Salomon, Mark, thermodynamic properties of liquid H₂O and D₂O and their mixtures, 10138
- Salt:
minerals yearbook chapter, 14560
response in 1M sodium chloride, lanthanum fluoride electrode, 13305

Salt—Continued
 salt deposits in compressors of flight gas turbine engines, survey, 5994
 sodium chloride contained in properties of sea water and solutions, 2009
 transport mechanisms of selective avian salt glands, 9970
 water-salt metabolism during spaceflight, 854
 Salt Lake City, Utah :
 area wage survey, 8554
 food distribution facilities, 5050
 Salt Lake City Corporation, land conveyance, release conditions in deed, report, 15403
 Salt Lake County, Utah, hydrologic and climatologic data, 9906
 Salt River, water supply outlook and snow surveys, 3583
 Salt water, *see* Sea water—Water.
 Salton Sea, area, lower Colorado River water resources (series), 5714
 Saltonstall, C. W., development of new and improved cellulose ester reverse osmosis membranes, 8422
 Salts :
 hot-salt-stress-corrosion—
 cracking and its effect on tensile and stress-rupture properties of Ti-6Al-4V titanium alloy-sheet, 16170
 titanium alloy under simulated turbine-engine compressor environment, 17251
 inorganic, and compounds, analyzed reagent and reagent grade, 14105
 metal salts—
 multicomponent salt solutions, amalgam electrodes used to measure activity coefficients, 2011
 recovery from concentrated brines by chelation, 9971
 molten—
 electrical conductance, density, and viscosity data, 1176
 electrochemistry, Gibbs free energies and excess free energies from equilibrium-type cells, 14666
 electrolysis, use for beneficiation of ferrochromium, 4647
 electrolytes, electrochemical behavior of aluminum electrode, 17247
 surface tension data of single melts, 14666
 recovery of salts from saline water via solvent extraction, final report, 7086
 Salvador, Blandina, relief, 8011
 Salvador, *see* El Salvador.
 Salvage :
 publications in salvage archeology, 1381, 2449-50, 8852, 17372
 salvaging flooded equipment, surface chemical methods, 8762
 Salzman, Jack A., lateral sloshing in cylinders under low-gravity conditions, 6010
 SAM, *see* School of Aerospace Medicine.
 Samoa, *see* American Samoa—Western Samoa.
 Sample surveys, *see* Social surveys.
 Samples, egg mass surveys of western budworm, 24-inch branch as sample unit, 5674
 Sampling :
 human visual sampling processes, simulation validation study, 2208
 pilot test procedures for estimating recreation use on winter-sport sites, 1936
 see also names of substances or objects sampled.
 Sampling (statistics) :
 census, 1970, population and housing, New Florencia, case study, 5231
 charts for determining sampling rate and number in sample, 12701
 comparison of classification of place of residence on death certificates and matching census records, 6208
 deer browse production, rapid sampling and computer-aided analysis, 4312

Sampling (statistics)—Continued
 methods for measuring population changes, systems, analysis summary, 7431
 pseudoreplication, evaluation and application of balanced half sample technique, 6209
 sampling lectures, supplemental courses for case studies in surveys and censuses, 1625
 χ^2 statistic and goodness of fit test, 11500
 Sampling devices, improvements in automatic sampling equipment used to determine extent of pollution in runoff from agricultural watersheds, 11787
 Samson, Marland E., post secondary distributive education, suggested guide for administrators and teachers, 15638
 Samuels, Howard J., black capitalism in ghetto, 4194
 Samuels, Richard D., experimental investigation of turbulent boundary layer on typical subsonic transport fuselage, 11464
 San Andres National Wildlife Refuge :
 general information, 1415
 historical notes, 1421
 Sanano, Julieta de la Torre, relief, 6631, 10840, 13836
 Sanano, Romeo de la Torre, relief, 6631, 10840, 13836
 San Antonio, Tex. :
 area wage surveys, 891, 16023
 elderly Mexican-Americans, Federal programs and services, availability and usefulness, hearings, 12282
 San Antonio River and Valley :
 Calaveras Creek, Tex., compilation of hydrologic data of basin, 12761, 14338
 Escondido Creek, Tex., compilation of hydrologic data of basin, 11239, 14339
 San Benito County, Calif., soil survey report, 17390
 San Bernardino, Calif., area wage survey, 5907
 San Bernardino County, Calif. :
 Barstow formation, Mud Hills, diagenesis of tuffs, 14351
 vicinity of Victorville, flood plain information, 12467
 San Bernardino Mountains, area, general information, 8321
 San Bernardino National Forest :
 annual report, 12717
 public campgrounds, general information, 14277
 San Bernardino Mountain area, general information, 8321
 San Jacinto Mountain area, general information, 8322
 Sanborn Lumber Co., Inc., relief, 16767
 San Clemente Island, oceanographic data report of area, 13225
 San Cristobal district, Bolivia, Villa Martin Province, Potosi, Bolivia, geology and mineral deposits, 7042
 Sand :
 aerial methods of studying and mapping sands, USSR study, 15915
 bed forms generated in laboratory under an oscillatory flow, analytical and experimental study, 15648
 effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
 gasflow performance prediction for the Cooper sand of Fork Run, Pool, Warren and McKean Counties, Pa., 11387
 horizontally penetrated by plates, cones, and spherical segments, force-penetration characteristics of, 4673
 improved wheel performance on sand by controlled circumferential rigidity, 11018
 quartz sand and oolitic aragonite, laboratory comparison under wave action, 10994

- Sand—Continued
radiosolotopic sand tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
sand on continental shelf off northeastern U.S., 5708
- Sand pine, *see* Pine.
- Sandbars, buried sand and gravel deposits in shallow-water areas, technique for location, 13246
- Sandburg, Carl, what does it mean to say he was a poet? (lecture), 10036
- Sandburg, Carl, Home National Historic Site, *see* Carl Sandburg Home National Historic Site.
- Sanders, Frank P., nomination, hearing, 5429
- Sanders, Herman O., toxicity of pesticides to crustacean *Gammarus lacustris*, 10400
- Sanders, William A., high-temperature mechanical properties of polycrystalline hafnium carbide and hafnium carbide containing 13-volume-percent hafnium diboride, 4735
- Sanders, track, classifications definitions, 4847
- Sandford, Maynard C., wind-tunnel study of deflected-elevator flutter, encountered on t-tail airplane, 4746
- San Diego, Calif.:
area wage survey, 7183
port, general data, 11002
test of 10,000 GPD reverse osmosis spiral module pilot plant, 14406
- San Diego Bay, Calif., vessel pollution study, 12661
- San Diego County, Calif.:
flood water information, 9694
Sweetwater River floods, problem, solution, etc., 12543
- San Diego test facility, 8423
- Sando, William J., Carboniferous megafaunal and microfaunal zonation in northern Cordillera of United States, 11245
- Sandoval, Hilary J., jr.:
nomination, hearing, 6779
remarks, May 12, 1969, 8849
- Sands, Johnny M., sonic boom research, 1958-68, 11050
- Sandstone, Fox Hills sandstone, lower part, north-central South Dakota, foraminifera and stratigraphy, 14348
- Sandwich construction:
maximum load prediction for sandwich plates, 11951
structural sandwich composites of aerospace vehicles, military handbook, 9521
- Sandy Hook, quadrangle, N.J., geology, 15794
- Sandy Hook to Cape Henry, coast pilot, 6530
- Sanford, F. Bruce, commercial fisheries abstracts, 2676
- San Francisco, Calif.:
accounts and deposits in all commercial banks in district, summary, 9771
area wage survey, 10023
food chain selling practices, economic report, 15739
intergovernmental problems in medical, ACIR hearing, 3615
riots, looting, and burning, subversive influences, hearings, 7977
- San Francisco Bay:
air quality control region, report for consultation on area, 4896
estuary, water pollution, hearing, 12223
- San Francisco Peaks, relation of precipitation to flow from Little Leroux Spring on, Ariz., 9849.
- San Francisco State College, shut it down! college in crisis, 13327
- San Francisco State College Study Team, staff report to National Commission on Causes and Prevention of Violence, 13327
- Sanger, Frederick J., foundations of structures in cold regions, 15040
- Sanger, Nelson L., noncavitating and cavitating performance of several low area ratio water jet pumps having throat lengths of 3.54 diameters, 7272
- San Isabel National Forest, administration, management, an use, evaluation and effects of Frylingpan-Arkansas project, impact survey report, 4301
- Sanitarians, employment outlook, 4547
- Sanitary engineers:
career in Air Force, as a civilian, 1529
conference, 1968, report of proceedings and 1968-69 committee programs, 1331
- Sanitation:
batch-treating studies on high solids activated sludge for treating human waste, 3708
consumer protection programs, sanitation handbook, 6817
dairy industry, sanitary regulation, once? twice? thrice?, 9646
equipment, Federal item identification guides for supplying cataloging, supplements, 2845
facilities for Indian homes, communities, etc., PHS to provide public health laws, compilation, 493
fish plants, sanitary requirements, military standard, 15530
fishery products protection by health standards and inspections, hearings, 409
guidelines for—
breaded-shrimp industry, 3921
finished products (poster), 11153
food processing (poster), 11152
plant employees (poster), 11150
poultry establishments, implementation of sanitary requirements, 6814, 9501
raw materials (poster), 11151
milk, equipment and methods in bulk dispensing operations, military standard, 8133
poultry plants, federally inspected, enforcement of sanitary, facility, and moisture requirements, Consumer and Marketing Service, GAO report, 14315
sanitary control of shellfish in Korea, 8815
sanitary services, northern Illinois, occupational trends, 14466
shellfish sanitation, technical report, 6204
- San Jacinto Mountains, area, general information, 8322
- San Joaquin River and Valley:
basin subregion, Calif., ground-water data, 12774
net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use of acoustic velocity meter for measurement, 14372
- San Jose, Calif.:
area wage survey, 5905
Project R-3, secondary program in compensatory education, 6901
- San Juan, Colo., primitive area, mineral resources, 14329
- San Juan Island National Historical Park, general information, 6094
- San Leandro Hills, rocks, upper Cretaceous and lower Tertiary, 5699
- San Luis National Wildlife Refuge general information, 13460
- San Luis Obispo County, Calif.:
Adelaida quadrangle, Middle Miocene foraminifera and stratigraphic relations, 734
geology, Tierra Redonda Mountain and Bradley quadrangles, 732
- San Luis unit, *see* Central Valley project.
- San Miguel County, Colo., geologic investigations in Slick Rock district (series), 747
- Sanpoil River, river mile index, 13310
- Santa Ana, Calif., area wage survey, 16017

Santa Ana National Wildlife Refuge:
birds, list, 16447
general information, 16444
Santa Barbara, Calif.:
Ellwood-Gaviota area, reconnaissance of
ground-water resources, 8356
oil spillage, hearings, 6729, 12305
Santa Barbara County, Calif.:
flood water information, 9690
floods, problem, solution, etc., 12542
ground-water resources of Santa Ynez up-
land ground-water basin, 9900
Santa Clara River:
Saticoy to Pacific Ocean—
flood hazard in Ventura County, Calif.,
12447
flood plain information, 9688
Santa Fe, N. Mex.:
Arroyo de los Chamisos and Arroyo Hondo
floods, how to avoid damage, 4210
flood plain information, 4201, 9689
Santa Fe River floods, how to avoid dam-
age, 12514
Santa Fe River and Valley:
flood plain information, 9689
floods in Santa Fe, N. Mex., how to avoid
damage, 12514
Santa Margarita project, water quality con-
trol study, 8263
Santa Margarita River and Valley, Santa
Margarita project, water quality control
study, 8263
Santa Ynez River and Valley:
including Alamo Pintado Creek, from Ca-
chuma Dam to Buellton, Santa Bar-
bara County, Calif.—
flood plain information, 9690
floods, problem, solution, etc., 12542
ground-water resources of upland ground-
water basin, 9900
Santee, Calif., Santee recreation project,
final report, 12662
Santelli, James S., annotated bibliography
of United States Marines Corps' concept
of close support, annotated bibliography,
5924
SAO, *see* Smithsonian Astrophysical Ob-
servatory.
Sap:
maple, use of plastic tubing in production,
research summary and evaluation, 7020
sugar maple trees, yield on flat land dou-
bled by vacuum pumping, 15758
Saptonantzis, P., Greek, basic course, 13475
Sarachik, Edward S., interaction of intense
laser beams with free electrons, 10128
Sarcomas, *see* Tumors.
Sardines, canned, Tariff Commission report,
13498
Sardinia, sailing directions, 8746
Saroff, Jerome R., Alaska recreation and gov-
ernment policies, 14196
Sarsiella, *see* Crustaceans.
Sartz, Richard S., interpreting neutron probe
readings in frozen soils, 17022
SAS (Small Astronomy Satellite), *see* Satel-
lites.
Sasebo, Japan, marine biofouling studies,
oceanographic cruise summary, 2327
Sashin Creek:
pink salmon, transplanted—
return and behavior of adults of 1st
filial generation, survival of their
progeny, 16715
survival of adults and their progeny,
Baranof Island, Alaska, 13822
Sassaman, Robert W., user's manual for
SORAC computer program, 12724
Satawal Island, plants, description, 17371
Satellites:
Alouette-2 topside-sounder observations,
magnetospheric duct propagation re-
search, 14612
amplitude scintillation at Randle Cliff
derived from ATS-1 transmissions,
10261

Satellites—Continued
applications technology satellite, radio
frequency interference experiment de-
sign, 11438
applications to marine geodesy, 4674
artificial earth—
Martian atmosphere, physical properties
determined by use of solar occultation,
17223
motion in earth's gravitational field,
13145
NRL, used for upper-atmosphere-density
determination, 10264
observations, 14857
theory and lunar theory, unified treat-
ment, 16193
ATS-1, 137-MHz radio wave transmis-
sions, electron-content variations and
change rates obtained by measurement
of Faraday rotation, 11566
balloon type enclosures for thermal con-
trol of satellites, experimental and an-
alytical investigation, 11458
Biosatellite II, NASA facts, 7244
capable of oceanographic data acquisition,
review, 13269
class of partially flexible spinning satel-
lites, attitude stability, 14606
communications—
evolutionary process, international ap-
plications (address), 14937
FCC rules and regulations, 2834
communications act of 1962—
amend—
hearings, 5377, 5434
law, 6563
reports, 5401, 6654
annual report on activities, etc., 5337
continuously visible satellite constella-
tions, 13298
Cosmos-110-biosatellite, radiobiological ex-
periments on, USSR study, 865
design techniques for small scientific satel-
lite structures, 13068
earth resources satellite system, subcom-
mittee report, 5382
electronic observations, preprocessing pro-
cedures, 1011
ESSA direct transmission system users
guide, 15671
ESSA 3, meteorological satellite, digitized
pictures, data from global charts of
mean brightness, monthly and seasonal
period, 1838
ESSA 5, meteorological satellite, digitized
pictures, data from global charts of
mean brightness, monthly and seasonal
period, 1838
experiments, data catalog, 4760
Explorer XXXV attitude control system,
11451
GEOS gravity gradient stabilized satellite,
two alternate damping systems, analy-
sis, 5980
GEOS I tracking station positions on SAO
Standard Earth (C-5), 11435
Goddard Range and Range Rate System at
Rosman, evaluation by intercomparison
with GEOS I long-arc orbital solutions,
11437
gravity model comparison using GEOS I
long-arc orbital solutions, 11436
ionosphere propagation delay measurement
techniques using dual phase coherent
doppler frequencies and thin shell model,
13258
Jupiter, Xth satellite of, application of
Hansen's method, 2267
Kosmos-6, measurements of radiation ef-
fects of American high altitude thermo-
nuclear burst Starfish, USSR study,
8505
lunar satellite motion, semi-analytic theo-
ry, 11440

Satellites—Continued

meteorological satellite data, television cloud photography, catalog, 617, 1839, 6922
 meteorology, USSR study, 12929
 natural, or ejected probes, method of deriving orbital perturbing parameters from onboard optical measurements, 14584
 natural, planetary effects in motion, 16153
 navigation, aid to ocean surveying, 13239
 Nimbus II flight evaluation and engineering report, through orbit 5275, 4702
 NRL SOLRAD 9 satellite, Solar Explorer B, 1968-17A program, 13283
 Pegasus and Explorer XXIII, detector panels, calibration, 16204
 Pioneer 8, cosmic dust experiment, 13084
 positional uncertainty, analysis by statistical mechanics, 13080
 pulse-modulated, analysis of oscillations in attitude control systems, 13040
 putting satellites to work, space applications, 11421
 radiation measurements in visible and infrared over northeast Africa, preliminary study of detection of geomorphological features, 2219
 relay program final report, 7245
 remote detection of earth resources in sub-arid lands, 2218
 satellite—
 broadcasting, implications for foreign policy, hearings, 10785
 ion-electron collector, experimental effects of grid transparency, photoemission, and secondary emission, 6913
 radiation measurements of atmosphere's geopotential height distribution, statistical estimation, 6921
 situation report (periodical), 3411
 turnstile antennas, study, 17312
 view of Typhoon Marie 1966 development, 1054
 satellites and aircraft observations, correlation with surface measurements of snow and ice, 10542
 Small Astronomy Satellite (SAS) program, 10105
 TIROS VII, monthly maps of emitted radiation in 8-12 micron atmospheric window over Indian Ocean area, atlas, 10106
 VHF communications between synchronous satellite relay and earth ground stations, solar effects on, 8618
 weather, picture receiving stations, automatic picture transmission ground equipment, inexpensive construction, report, 13063
see also Spacecraft.
 Saturation, roofing felts, variables involved, 13156
 Saturn (planet):
 direct trajectories to Jupiter, Saturn, etc., general discussion, contour charts, etc., planetary flight handbook, 13053
 Saturn (rocket), *see* Rockets.
 Saucier, J. R., regional variation in specific gravity of seven pines in southern United States, 11186
 Saucier, Kenneth L., correlation of hardened concrete test methods and results, 6909
 Saudi Arabia:
 background notes, 8874
 economic trends and their implications for United States, 818, 8468
 foreign trade regulations, 15172
 mineral industry, minerals yearbook chapter, Kuwait-Saudi Arabia Neutral Zone, 17184
 Sauer, Walter C., nomination, hearings, 8054
 Saugers, biological characteristics of sauger population in Lewis and Clark Lake, 7475
 Saunders, A. W., Jr., interaction of radon decay products with aerosols, 10254

Sausage, products, USDA institutional purchase specifications, 1748
 Savannah, Ga., area wage survey, 12973
 Savannah (steamship):
 150th anniversary of sailing of first steamship to cross Atlantic Ocean (remarks), 10042
 Savannah National Wildlife Refuge, general information, 10396
 Savannah River:
 highway for trade, steamboats, canoes, etc., operating during 19th century, 14153
 water quality studies, Federal-State-industry cooperative, report, 14804
 Savings accounts, *see* Banks and banking—Deposits (solders, etc.).
 Savings and home financing source book, 15706
 Savings and loan associations:
 District of Columbia, installment loans, charge or deduct interest in advance—
 hearing, 12211
 report, 12183
 housing credit, brand new ball game, the 70's (address), 15704
 monetary restraints and flows of funds to savings institutions (remarks), 6976
 program for housing growth (address), 9776
 savings and home financing, 1968, source book, 15706
 savings and mortgage lending activity, selected balance sheet items, FSLIC insured associations, 2928
 see also Federal savings and loan associations—Federal Savings and Loan Insurance Corporation.
 Savings banks, *see* Banks and banking.
 Savings bonds:
 bond tips from your U.S. savings bond reporter, 2628
 issued and redeemed, 3549
 payroll savings program (remarks), 8920
 program (remarks), 2528-29
 share in America (remarks), 6330
 series A-E, tables of redemption values, 10291
 series E, general information, department circular, supplement, 4992
 series H, general information, 2522
 interest rate increase, report, 16776
 Savitt, Harry L., health insurance for aged under social security, number of persons insured, 4936
 Sawflies, *see* Flies.
 Sawing machines *see* Saws.
 Sawlegs, *see* Logs.
 Sawmills, Indiana sawmills receive 232 million board feet of saw logs in 1966, 4314
 Saws:
 power handsaw, construction industry safe work guide, 17148
 radial saw, how to inspect chart, 5892
 table saw, how to inspect chart, 5893
 wood sawing, classification definitions, 2366
 Sawtimber, *see* Timber.
 Sawtooth Country, national recreation area, concept, 15754
 Sawtooth National Recreation Area:
 establish—
 hearings, 15320
 report, 10860
 Sawyer, Richard H.:
 operational limitations in flying noise-abatement approaches, 17243
 simulation studies of supersonic transport in future air traffic control systems, 2244
 Saylor, James H., currents at Harbor Beach, Mich., 903
 Sayre, Jim, international agricultural development, monthly newsletter to cooperators, 2994
 SBA, *see* Small Business Administration.
 SBIC industry review, 7450

- SBR, *see* Styrene-butadiene rubber.
- Scabies :
 sheep and cattle—
 epidemiology activities report, 6362
 eradication, cooperative State-Federal
 program, report, 3623
- Scaffolding, prefabricated, Federal item identification guides for supply cataloging, supplements, 2845
- Sciaquada Creek :
 flood plain information, 12477
 floods, how to avoid damage, 12537
- Scale :
 calcium sulfate on metal surfaces, ultrasonic detection, 11284
 control, in saline water—
 distillation, basic studies, 15858
 evaporators, review of current status, 9957
 control with graphite heat-transfer tubes of controlled permeability to steam, phase 2, 4402
 factors for parawing opening characteristics with dimensional ratios, experimental verification, 6017
 surface potential effect on scale formation, 4400
- Scale (logging) :
 national forest log sealing handbook, 9846
- Scaled lunar module jet erosion experiments, 8612
- Scales (electronics) :
 calibration procedures for load cells and proving rings as weighing devices, studies, 4766
- Scales (fishes) :
 function of ctenoid apparatus of fish in presence of turbulent boundary layer, USSR study, 15963
 Pacific salmon and steelhead trout identification by scale characteristics, 16712
 relation of scale characteristics to river of origin in four stocks of chinook salmon in Alaska, 5305
- Scales (measures) :
 formalization of measurement scale forms, 11481
 photo scale and orientation, effect of disparity on change detection, 13666
- Scales (weighing instruments) :
 classification definitions, 2370
 moveable pen for truck platform scale, farm building plan, 3653
 weighing and measuring devices, specifications, etc., replacement pages, 14663
- Scaling (psychology), *see* Psychometrics.
- Scandium isotopes, scandium-45 at 41 MeV, study of (a,t) reaction, 10134
- Scanner, *see* Project Scanner.
- Scanners, flying-spot, use of for visual simulation image generation, 7300
- Scanning :
 advanced scanning beam guidance system for all weather landing, 7539
 automated reflectance scanning to study coal components, microscope system using, application to analysis of pyrite distribution, 10057
 electronically scanned star sensor with digital output, design, 11483
 infrared scanning the Arctic pack ice, 10219
- Scaphites, *see* Ammonites.
- Scarabaeids, *see* Beetles.
- Scarfs, *see* Scarves.
- Scarves, industry in Puerto Rico, data pertinent to review of minimum wage rates, 11772
- Scattering :
 atmospheric scattering from 1.15-micron laser beam and its off-axis detectable range, 1836
 backscattering of infrared radiation by ice fog and water fog, 11932
 42-MeV alpha particles from even isotopes of cadmium, 2248
- Scattering—Continued
 light-scattering data from polymer solutions, analysis, 7305
 mie scattering functions for particles with refractive index 1.5, tables, 7282
 proton, in range 16 to 22 MeV, optical model analysis, 8614
 scattered-field response of linear array to step-function illumination, 10260
 sound-scattering, layers near Key West, Fla., investigations, 13276
 thermal neutron scattering measurements in water, 12826
 topics in electron scattering and nuclear models, notes on lectures at NRL, 1264
- Schaal, Lawrence A. :
 climates of States Illinois, 14160
 French Lick and West Baden Springs, Ind., climatic summaries of resort areas, 5575
- Schaefer, Karl E. :
 saturation-exursion diving, biochemical cycle functions in lactic dehydrogenase, lactate, and pyruvate responses, 922
 stress response in chronic hypercapnia, 919
- Schaeffer, R. E., gluing fire-retardant-treated Douglas-fir and western hemlock, 4304
- Schaffer, E. L., simplified test for adhesive behavior in wood sections exposed to fire, 4305
- Schaffer, Robert, Organic Chemistry Section, July 1968-June 1969, summary of activities, 16234
- Schaffer, William A., changes in structure of manufacturing employment, 1630
- Schallock, H. Del, competency based, field centered, systems approach to elementary teacher education, 4163
- Scharpf, Robert F., dwarf mistletoe on red fir, infection and control in understory stands, 12715
- Scharton, Terry D., development of impedance simulation fixtures for spacecraft vibration tests, 10086
- Schedler, Spencer J., nomination, hearings, 12286
- Schedule of annual indices for carriers by railroad, 4431
- Schedules, *see* names of departments, etc., issuing schedules.
- Scheier, Ivan H., using volunteers in court settings, manual for volunteer probation programs, 4931
- Schein, Edward W., influence of design on exposed wood in buildings of Puget Sound area, 4302
- Schenectady, N.Y., area wage survey, 11345
- Schermer, George, more than shelter, social needs in low and moderate-income housing, 1314
- Scherrer, Victor E., spectroscopic study of helium arc, 16162
- Schetz, Joseph A., unified analysis of turbulent jet mixing, 13046
- Schiffmann, Genevieve, medical research institutions named after medical men, 7351
- Schillings, Paul L., selecting crawler skidders by comparing relative operating costs, 17039
- Schimke, Harry E., electrical ignition for prescribed burning, 11159
- Schists :
 flotation of muscovite from Alabama graphitic-mica schist ore, 10064
 graphitic schist from Tallapoosa County, Ala., recovering gold, 7221
- Schizophrenia, NIMH Center for Studies of Schizophrenia, functions and activities, 17349
- Schlee, John, sand and gravel on continental shelf off northeastern U.S., 5708
- Schlieren system, optical system for recording schlieren images, with a continuous-writing ultra-high-speed framing camera, 4718
- Schmalz, Bruce L., injection of gas into lithosphere at National Reactor Testing Station, 13696

INDEX 1969

- Schmeltzer, Edward, remarks, Nov. 6, 1968, 5611
- Schmidt, K., SUL-biSUL ion exchange process, field evaluation on brackish waters, 9976
- Schmidt, W. H., Coast Guard reservist, 2666
- Schmidtling, R. C., graphic analysis of Erambert's hybrid, 8298
- Schmitt, Dan, performance of southern pine hybrids in south Mississippi, 8314
- Schmitt, Marshall L., planning and designing functional facilities for industrial arts education, 584
- Schmitt, William V., Army digest, 2604
- Schneider, G. R., development of methods for determining ice particle size distribution from freeze desalination crystallizers, 7087
- Schneider, James J., tidal relations in south Biscayne Bay area, Dade County, Fla., 8362
- Schnellbacher, E. E.:
addresses, etc.—
Oct. 7, 1968, 820
Oct. 8, 1968, 819
Nov. 14, 1968, 2022
Dec. 12, 1968, 2023
Mar. 19, 1969, 5802
Mar. 26, 1969, 7118
May 22, 1969, 9982
Sept. 28, 1969, 15888
Sept. 29, 1969, 15891
- Schnittker:
addresses, etc.—
Aug. 1, 1968, 27
Sept. 26, 1968, 61
Oct. 23, 1968, 3631
- Schober, T., small gas turbine engine component technology phase 1 summary report, 1585
- Schoebel, T., sucrose hydrolysis at limited water concentration, 1543
- Schofield, Elizabeth, relief, 6639
- Schoharie County, N.Y., soil survey report, 16438
- Scholars:
American, abroad, tax information, 8442
exchanges, international negotiation with Soviet Union, advantages and dilemmas, 16885
foreign scholars and educational and cultural exchange visitors, tax information, 8430
presidential, 1970 program, 10286
- Scholarships:
Army ROTC scholarship program, 6430, 15037
investment in your future, 15045
educational, loans, and financial aids, 7661
educational trust funds, employer contributions—
hearings, 9342, 9481
reports, 10714, 12261, 15283
health professions program, career information, 14689
scholarship program, education of handicapped children, summer 1968, academic year, 5553
tax information, 8451
- School attendance:
a day in the life, 1310
do your own thing and stay in school, 5536
- School buildings:
construction, grants to increase educational opportunities, hearings, 15314
federally affected areas, construction assistance, 1968 annual report, 14127-128
- School children, *see* Children.
- School continues for pregnant teenagers, 4185
- School districts:
finances, census statistics, 9116
New Hampshire-Vermont interstate school compact—
law, 10683
reports, 7935, 8036
- School libraries, *see* Libraries.
- School lunches:
child nutrition and school food assistance, hearings, 14058
fish and shellfish type A quantity recipes, cost per portion, 12074
food cost control, school breakfast program, 4105
food for children, in pre-school centers, summer programs, 8101
national school lunch act, amend—
hearings, 5373-74, 16877
meals for needy children, provide temporary emergency assistance, report, 12187
reports, 6686, 6689
national school lunch programs, hearings, 5374
new food program first to feed pre-school youngsters, picture story, 1518
statutes, compilation, 1502
type A—
quantity recipes, guides for writing and evaluating, 14992
topics, nutrition and type A lunch pattern, 3534
- School of Aerospace Medicine:
aeromedical reviews, 80-81, 1538-39, 6415, 10524, 13627, 16570-571
technical reports, 82-105, 1540-50, 3691-3717, 5083-84, 6416-21, 7635, 9006-11, 10525-533, 11900-906, 13628-633, 15017-21, 16572-575
- Schools:
allied health professions personnel training act of 1966, amended, reports, 5683, 13167
American, 1970-71 foreign curriculum consultant program, 14135
children from the Deep South, a cry for help, 14120
construction, special fund, agreement with Philippines, 1448
desegregation—
technical aspects, 10985
Virginia, Federal role in selected districts, report, 5245
elementary program in compensatory education—
Flint, Mich., school and home program, 6874
New York City, 6868, 6871
elementary school media centers in 3 inner cities, descriptive case studies, 10976
enrollment, Oct. 1968 and 1967, population characteristics, 15114
European areas school system for overseas dependents, Defense Dept., GAO report, 14323
fall school enrollment approximately 58.8 million, 7740
federally affected areas, operation assistance, 1968 annual report, 14127-128
federally impacted areas, educational assistance for children living in public housing, hearing, 7951
how 5 school systems desegregated planning educational change, 10986
human resources in school desegregation, planning educational change, 9659
intermediate grades, space oriented concepts for science and mathematics curricula, 11401
library resources, ESEA, title 2, annual report, 6866
local public school systems, 1967 statistics, pupils, schools, staff, expenditures, 8175
making it, stay ahead, stay in school, 14773
making the scene in jobs, school, training, through Neighborhood Youth Corps, 4464
menu planning guide for breakfast, 6813
milk program, extend, report, 7922

- Schools—Continued
 naval air training, optimal weighting of course grades, 14500
 nonpublic, 1965-66, directory, 1815
 off-campus study centers for Federal employees, 290
 pilot, Federal aviation regulations, changes, 4242, 15687
 prelude to school, evaluation of inner city preschool program, 13778
 preprimary enrollment of children under 6, description of survey, 4181, 10987
 public—
 bond sales, 4162
 elementary and secondary schools in large school districts, with enrollment and instructional staff, by race, fall 1967, directory, 15629
 finance programs, States and outlying areas, 6897
 participation and partnership (remarks), 582
 prayer, proposed constitutional amendment, hearings, print additional copies, report, 7915
 public systems, education directory, S165
 right spirit all year long, 5552
 school breakfast program, how it works, etc., 8107
 school media programs, emphasis on excellence, 12430
 special milk program, extend report, 6691
 State systems, 1965-66, statistics, 5555
 transition from school to work in selected countries, 16030
 volunteer programs, revell for volunteers, 6898
see also Education—Elementary education—High schools—Junior high schools—Medical schools—Nurses and nursing—School districts—School lunches.
- Schoonover, David M., paper, Aug. 13, 1968, 5532
- Schopf, Thomas J. M., Atlantic Continental Shelf and slope of U.S., 19th Century exploration, 1966
- Schrader, E. R.:
 superconductive magnet system, 14-tesla, 15-cm-bore, 467
 superconductive 7.2-Tesla 4-magnet assembly, 17212
- Schroeder, Harold J., bismuth, 14524
- Schroeder, J. G.:
 southern pine log grades for yard and structural lumber, 1933
 southern pine tree grades for yard and structural lumber, 1934
- Schroeder, Mark J., critical fire weather patterns in conterminous United States, 5579
- Schroeter, Richard B.:
 canned deciduous fruit industry of South Africa, 15747
 foreign competition in horticultural products, 12669
- Schubert, Gilbert H., here's how, guide to tree planting in Southwest, 14291
- Schubert, Thomas H., early growth and development of 4 pine species in Hawaii, 17034
- Schuerch, Hans U.:
 certain physical properties and applications of nitinol, 1033
 large low-frequency orbiting radio telescopes, 1020
- Schuetz, Erich P., passive helicopter rotor isolation using Kaman dynamic antiresonant vibration isolator (DAVI), 10553
- Schuetz, Warren, small engine repair, suggested guide for training course, 5554
- Schuldiner, Sigmund, anodic oxidation of hydrogen on iron and platinum in sodium hydroxide solution, 6137
- Schuller, Frederick T., experiments on stability of water lubricated herringbone-groove journal bearings, 1103, 11475
- Schultz, George P., remarks, May 23, 1969, 10009
- Schultz, Robert P.:
 differential response of slash pine families to drought, 9859
 effect of seed source and fertilization on slash pine seedling growth and development, 9869
- Schumaker, Richard L., relief, 9401, 13875, 16726
- Schumann, David R., effect of tension wood on hard maple used for manufactured parts, 15763
- Schumm, S.A., river adjustment to altered hydrologic regimen, Murrumbidgee River and Paleochannels, Australia, 4366
- Schuyler, Sonja, user's guide for NODC's data processing systems, 11560
- Schuyler, William E., Jr.:
 addresses—
 Aug. 11, 1969, 13317
 Oct. 8, 1969, 17318
 Oct. 21, 1969, 17319
- Schuyler Otis Bland Library, dedication (remarks), 2129
- Schwartz, Frank G., storage stability of gasoline, 2170
- Schwarz, Francis K., probable maximum and TVA precipitation for Tennessee River basins, etc., 17438
- Schweitzer, Dennis L., computer program to evaluate timber production investments under uncertainty, 4311
- Schwering, F., radiation characteristic of aperture-limited dominant beam mode of lens-type beam waveguide, 3740
- Schwirlan, Richard E., new momentum-integral methods for treating magneto-hydrodynamic and simple hydrodynamic entrance flows, 10133
- Science:
 Academy of Sciences, Azerbaydzhan SSR, elects new members, 5822
 Academy of Sciences, Byelorussian SSR, history and activities, outline, 15981
 Academy of Sciences, Kazakh SSR, academician Skryabin feted for contributions to helminthology, 2080
 Academy of Sciences, Ukrainian SSR—
 activities, 15912
 president interviewed, 12906
 Academy of Sciences, USSR—
 experiments with electronic techniques, 15971
 general information, 12887
 history and work, brief account, 7156
 vestnik (periodical), 3574
 Academy of Sciences, Uzbek SSR, foundation and development related, 4447
 activities at universities and colleges, 1964 financing and Jan. 1965 employment, 1234
 advancement of science through national program of institutional grants to colleges and universities—
 hearings, 419
 study, 4000
 aerospace sciences review, 8994, 16559
 agricultural science review, 2566
 Air Force Science and Engineering Symposium, proceedings, 7633-34
 aliens employed in scientific or technical capacity by Secretary of Commerce, report, 10857
 Azerbaydzhan's scientific achievements detailed, USSR study, 5830
 baccalaureate sources of science and engineering manpower, 4815
 careers, examination announcement, 276, 9187
 centralization of Federal activities, report to subcommittee, 10805
 print as House document, report, 15289
 changes forecast for year 2000, USSR study, 12905
 Clearinghouse announcements in science and technology, 2661

INDEX 1969

Science—Continued

Coast and Geodetic Survey, science and engineering presentations, digest, 295
cold regions science and engineering, 3751, 6431, 7651, 15040, 15652
Communist Chinese scientific abstracts, 2681-82
earth sciences, East European abstracts, 2779
East European abstracts, 2776-83
effectiveness of science and its achievements, USSR study, 15946
ESSA Research Laboratories publications, list, 14177
exchanges, agreement with—
Romania, 6296
Union of Soviet Socialist Republics, 2497
exhibits, experimentally oriented, Lawrence Hall, of Science, 3811
facilities, bibliography, 17295
Federal funds for research, development, and other scientific activities, 2322
Federal science activities centralization, subcommittee report, 15226
four horsemen of progress (remarks), 198
Georgian SSR scientific achievements lauded, 17128
graduate enrollment and Ph.D. output in scientific fields, 1960-61 through 1965-66 trends, 1199
improving environment in HEW programs, Career Service Board for Science report, 4375
information available from Atomic Energy Commission, 7703
Institutes for Environmental Research publications, list, 14173
International notes (periodical), 3002
international scientific cooperation (talk), 8670
junior college teachers, 1967, experience and employment characteristics, 6098
landmarks, great rare books from USMA library collection, 14520
Latvia's future scanned, 15917
NASA scientific and technical information system, and how to use it, 16147
NASA scientific reports for 1968, selected listings, 10102
National Commission on Libraries and Information Science act, report, 9292
neurologic sciences, bibliography, 6333
Panel on Science and Technology, 10th meeting, proceedings, 6730, 12148
reprint, report, 10757
science & technology and the cities, 6730, 9371, 12148
physical science research papers, 1537
physical sciences—
Air Force research objectives, 1969, OAR, 15016
national standard reference data system—
appropriations, 1970-71, authorization, hearings, 9369
questions and answers, 11518
trainees in vacation work-study programs, examination announcement, 12053
physical scientists, Federal jobs, the big pond, 9191, 16689
policy issues, review and forecast, 4002
pollution abatement—
congressional white paper, 418
report, 3999
radio science (periodical), 3362
reviews of data on resources, 4815-16, 10210
science and engineering, support and research participation of young and senior academic staff, 2323
science and service career in ESSA Commissioned Officer Corps, 8189
science and society, bibliography, 3809

Science—Continued

science for better living, agriculture yearbook—
departmental edition, 5065
document edition, 5321
science from a scientific heritage, F. A. Tsander, lectures, reports, etc., 10161
science, the good urban witch (remarks), 4391
science in industry and production, USSR study, 12885
science, technology, and public policy, government-science relationships during 90th Congress, 1st & 2d sessions, 15330
scientific activities of nonprofit institutions, 16281
scientific affairs, Eastern Europe, translations, 3509
scientific and technical progress, USSR long-range forecasting, 12938
scientific cooperation, agreement with—
Australia, 6285
China, Republic, 7519
Iran, 13486
scientific information notes, national and international developments, 3415
scientific information systems, new techniques, USSR study, 8516
scientific progress in Lithuanian SSR, USSR survey, 15933
scientific reports, prepared by or for Federal government, format standards, guidelines, 1861
scientific-technical progress tempo reviewed, USSR, 15976
scientific-technical revolution, USSR comments, 15955
scientology as a science, USSR study, 8519
significant accomplishments in science, 1968, Goddard Space Flight Center, proceedings of symposium, 14598
Smithsonian contributions to earth sciences, 7454
socialism speeds scientific and technical progress, USSR study, 15983
software of change (address), 15176
special foreign currency information program, 1969, list of translations, in process, 10632
spoonful of science (remarks), 10576
State technical services, helping business and industry, 6344
strategy and science, toward a national security policy for 1970's, hearings, 7956
print as House document, reports, 15287, 16857
surveys of science resources series, 2322, 10211, 16281
talent and education of the younger generation guarantee a great potential for science (remarks), 5191
teaching activities related to space, 11399
technical aids, opportunities, examination announcement, 15145
technical assistant, examination announcement, 16694
technology and the citizen (remarks), 13723
to improve secondary school science and mathematics teaching, history of National Science Foundations' programs, 4812
toward new scientific area (remarks), 208
toward public policy for graduate education in sciences, 6099
USSR—
medical sciences look ahead, 8503
philosophical problems of forecasting and organizing, 2093
prizes, 15909
scientific abstracts, 3562-68
scientific activities and organizations, news, 867
scientific progress and sociological predictions, 12945

Science—Continued
 USSR—Continued
 state prizes, 1968, roster of recipients, 5874
 youth experiments, 844
see also Nuclear science—*also* names of sciences.

Science and Astronautics Committee, House :
 activities, 90th Congress, 7974
 calendar, 3049
 committee prints, 418, 420-422, 3999-4000, 4002, 5382, 7974-75, 9371, 10805, 13941, 15327, 15330-332, 16824
 hearings, 419, 4001, 7973, 9366-70, 10806, 15328, 16823
 investigations and studies aeronautics, outer space, other scientific research and development—
 authorization, report, 6652
 expenses, report, 6678
 Panel on Science and Technology, 10th meeting—
 papers, 9371
 proceedings, 6730, 12148
 reprint, report, 10757
 publications, list, 15329
 reports, 7972, 9302, 10712, 10716, 10720, 15274, 15294

Science and religion (USSR periodical) :
 translations, 12933

Science and Technology Advisory Committee for Manned Space Flight, NASA, manned space flight, 1975-85, winter study on uses, conference proceedings, 17214

Science and Technology Office :
 appropriations, 1970, hearings, 9332, 12285
 Deputy Director, nomination of Hubert B. Hefner, hearing, 12313
 Director, nomination of Lee A. DuBridge, hearing, 5460

Scientific Advisory Committee on Television and Social Behavior, Surgeon General's interim report, hearings, 15428

Scientific and technical aerospace reports, 3413
 indexes, 3414

Scientific apparatus and instruments :
 glass tube apparatus for large-scale culture of chlorella, USSR study, 833
 import trends, 1958-67, analysis, 13731
 portable apparatus for estimating stomatal aperture in conifers, 12693

Scientific institutions, *see* Nonprofit organizations.

Scientific research :
 Air Force research, bibliography, 3674
 Armed Services support, investigation—
 authorization report, 5351
 expenses, report, 6669
 careers, Agricultural Research Service, 13595
 documentation, current research and development, 11656
 Federal funds for research and development, 2322
 Federal support of research project grants to institutions of higher learning, indirect costs and cost sharing, hearings, 9465, 10903
 Institutes and their work, USSR study, 15956
 medical benefits from space research, 4691
 NSF program guide, 11555
 national science research data processing and information retrieval system, establish in National Science Foundation, hearings, 12214
 research and development in industry—
 1966, final report, 1233
 1967, preliminary report, 10210
 research grants of PHS, 1968, index, 7346
 USSR agriculture, 12900
 USSR review, 8500
 work, improved use of time needed, USSR study, 846
see also subjects.

Scientific satellites, *see* Satellites.

Scientific societies :
 USSR—
 science academies survey past and future, 8501
 work in scientific organizations scored, 2083

Scientists :
 Air Force, scientific and technical officers, improvement of procurement, utilization, and retention of high quality, 79
 America's, characteristics, 1960 and 1962
 postcensal survey, 13775
 approach sources of life, USSR study, 15967
 biological, employment outlook, 4480
 civilian career opportunities, Navy Department, 2360
 compensation, 1968 national survey, 9082
 earth, employment outlook, 4501
 education through national program of institutional grants to colleges and universities—
 hearings, 419
 study, 4000
 employment in United States, 4810
 evaluating the scientists' work, USSR study, 12880
 Federal Government, 1967, scientific and technical personnel, 17296
 job market, 14146
 9th scientific conference of graduate students and junior scientific associates of Institute for History of Natural Science and Technology, section on history of aviation and cosmonautics, transactions, 11505
 physical science, federal jobs, the big pond, 16689
 political education of scientists discussed, USSR study, 5867
 research and development in industry, Jan. 1968, preliminary report, 10210
 scientific and technical personnel in industry, 5897

scientists—
 and related professions, examination announcement, revised, 6521
 from abroad, 1966 and 1967, as immigrants, 10211
 from other countries, intern-training opportunities provided by U.S. Geological Survey, 14341
 working day, USSR study, 12902
 so you're scientist or engineer now, career opportunities in Air Force, 6422
 Soviet, decorated, 11319
 training, USSR study, 12903
 U.S., salaries and selected characteristics, 4816
 Ukrainian scientists work for the people, USSR study, 15939
 wave motion problems, investigations, USSR study, 15930
see also Research scientists.

Scintology, as a science, USSR study, 8519

Scintillation :
 amplitude scintillation at Randle Cliff derived from ATS-1 transmissions, 10261
 range noise and related phenomena in water wave profiling with microwave radar, 2349

Scintillation counters, absolute measurement of alpha emission and spontaneous fission, 3801

Scioto River and Valley, hydrogeology, near Piketon, south-central Ohio, 9933

SCLC, *see* Southern Christian Leadership Conference.

Scleroderma canker, *see* Canker (diseases of plants).

- Scola, Francis P.:
clinical evaluation of stannous fluoride when used as constituent of prophylactic paste, as topical solution, and in dentifrice in naval personnel, report, 13003
self-preparation stannous fluoride prophylactic technique in preventive dentistry, 14516
- Scomber japonicus houttuyn, *see* Mackerel.
- Scoops (air), *see* Air scoops.
- Scorpion (U.S.S. SSN-589):
in memoriam, 10272
- Scotland:
north and east coasts, sailing directions, change, 2329
west coast, sailing directions, change, 7371
- Scott, Charles R., relief, 6642, 6748, 9235
- Scott, Glenn R., general and engineering geology of northern part of Pueblo, Colo., 14330
- Scott, Harold B., address, Oct. 15, 1969, 17104
- Scott, Kevin M., sedimentation in Piru Creek watershed, southern California, 1974
- Scott County, Ark., community profile, 15600
- Scott Run, basin, sediment movement in area of suburban highway construction, Va., Fairfax County, Va., 12796
- Scotts Bluff County, Nebr., soil survey report, 6247
- Scranton, Pa., area wage survey, 4600
- Scranton quadrangle, Ark., geology, 4363
- Scrap:
consumption and stocks at brass and wire mills, mineral industry survey, monthly, 2629
iron and steel, use in extraction of copper from oxides, principles and application to pure systems, 16101
metals, temporary suspension of duties, continue—
law, 12110
reports, 7900, 9438
synthetic automobile scrap, removal of nonferrous metals, on heating in rotary kiln, 2177
tires, destructive distillation, 16102
zinc-base die cast, refining, using low-cost fluxes, 16106
- Scrapie, bibliography, 10189
- Screens, and fencing, mesh, Federal item identification guide, 16919
- Screws:
making, classification definitions, 2361
screw machine products industry, machinist, automatic screw-machines, national policy of apprenticeship, guide, 16577
- Screwworm, eradication, Agricultural Research Service, program, GAO review, 7034
- Scripps Institution of Oceanography, La Jolla, Calif., digital data logger STD tapes, processing, 13823
- Scripps Tuna Oceanography Research Program, eastern tropical Pacific Ocean, description and evaluation of methods for determining incident solar radiation, submarine daylight, etc., 5302
- SCS, *see* Soil Conservation Service.
- Scuba, *see* Aqualung.
- Scauder, Hubert B.:
memorial services, 1693
print as House document, report, 382
- Scupper drain attachments to vessels in drydock, 14444
- SDL, *see* Space Disturbance Laboratory.
- SDR (Special Drawing Rights), *see* International Monetary Fund.
- SDS, *see* Students for a Democratic Society.
- Sea, *see* Ocean.
- Sea food:
radiopasteurized seafoods chemistry, report, 5175
seafood moods from Alaska, Washington, Oregon, recipes, 16714
- Sea Isle City, N.J., floods, how to avoid damage, 12487
- Sea of Japan, *see* Japan, Sea of.
- Sea slicks, *see* Ocean.
- Sea Spider site survey in support of Project Parka, 13252.
- Sea urchins, echinoids from Middle Eocene Lake City formation of Georgia, 1383
- Sea water:
and its concentrates, properties, up to 200°C, 7084
brines, chemicals, 17093
bubbled, condensation nuclei production, influence of monomolecular surface films on, 2351
continuous counter-current ion exchange removal of calcium to prevent scaling of distillation equipment, errata, 14403
conversion, appropriations, 1970—
hearings, 6793
law, 12128
reports, 6770, 7934, 9289
conversion, Wrightville Beach Test Facility, 14408
corrosion—
control by environment modification, 11281
test program, 9960
density, density-gradient column as tool for measuring, 1263
desalinating plants, vacuum freezing vapor-compression process, 1 to 5 million gallons per day, 11287
desalination—
analytical procedures, report, 14104
report, 9954
reverse osmosis pilot plant, 11286
desalted water for irrigation, value, study, 14843
desalting by freezing, 803
evaporation, gas turbine powered vapor compression plant for design and economic study, 2006
hot, development of low-cost iron-base alloy to resist corrosion, 4401
intrusion, flushing procedures at W. P. Franklin Dam, Ft. Myers, Fla., 8359
large prototype desalting plant in Israel, U.S. participation in development, hearings, 13928
mean, minimum, and maximum sea surface temperature, monthly charts, Indian Ocean, 2340
measurement of fluoride activity and concentration, using lanthanum fluoride electrode, 14753
nuclear desalting, U.S. programs and activities (remarks), 6480
nuclear power and water desalting plants for southwest United States and northwest Mexico, preliminary assessment conducted by joint United States-Mexico-International Atomic Energy Agency study team—
executive summary, 5177
report, 5179
properties, and solutions containing sodium chloride, potassium chloride, sodium sulfate, and magnesium sulfate, 2009
removing seawater salt residues from aircraft cockpits and avionics equipments by surface chemical methods, field experience, 8762
salt water desalination by freezing method, USSR study, 15928
San Diego test facility, 8423
sixteen years' exposure of structural ferrous metals in tropical environments, 14744
steel piling in seawater, corrosion and protection, 14149

Sea water—Continued
 temperature and density, Atlantic Coast,
 North and South America, 296
see also Desalination.

Sea water batteries, *see* Electric batteries.

Seabees in action, Vietnam, pictorial report,
 8741

Seaborg, Glenn T. :
 addresses, etc.—
 Oct. 18, 1968, 202
 Oct. 30, 1968, 203
 Nov. 15, 1968, 208
 Nov. 25, 1968, 198
 Dec. 1, 1968, 204
 Dec. 4, 1968, 199
 Dec. 17, 1968, 1608
 Jan. 29, 1969, 3817
 Jan. 29-30, 1969, 8882
 Jan. 30, 1969, 3818
 Mar. 3, 1969, 5191
 Mar. 6, 1969, 5186
 Mar. 25, 1969, 6476
 Apr. 15, 1969, 10575
 May 5, 1969, 7716
 May 10, 1969, 7717
 May 25, 1969, 9087
 June 9, 1969, 10572
 June 14, 1969, 10577
 July 31, 1969, 11965
 Sept. 17, 1969, 13723
 Sept. 24, 1969, 15082
 Oct. 1, 1969, 15083
 Oct. 13, 1969, 15078

Seafaring wage rates, Atlantic, Gulf and
 Pacific districts, 8571

Seafood, *see* Sea food.

Sealab Project, *see* Project Sealab (man-in-
 the-sea program).

Sealers, Federal item identification guides
 for supply cataloging, supplements, 2817

Sealift magazine, 3416

Sealing :
 dam surfaces, isothermal compressible
 flow with relative rotation, computer
 program, 16155
 plates sealing an incompressible liquid,
 3746
 viscous, isothermal compressible flow
 across sealing dam with small tilt angle,
 computer program, 14621

Seals (animals) :
 fur seal investigations, 15181

Seals and glands :
 gaskets, packings, and seals, Federal item
 identification guide, 533, 8122, 16914
 isothermal compressible flow across rotat-
 ing sealing dam—
 analysis, 14614
 computer program, 16155
 leak detection in hermetically sealed de-
 vices, 17225
 lubricated lip seal designs at peripheral
 velocity of 120 feet per second, torque
 and leakage rates, 14647
 shaft face seal with self-acting lift, aug-
 mentation for advanced gas turbine en-
 gines, 7303
 vibration of shaft face seals and stabiliz-
 ing effect of viscous and friction damp-
 ing, 8637

Seamans, Robert C., jr., nomination, hear-
 ing, 4072

Seamanship, *see* Navigation.

SEAMAP deep-sea channel, 6917

Search, 10040

**Search and rescue operations for U.S. citi-
 zens and craft in foreign areas**, 7959, 9301

Search for unity, 15842

**Searches and seizure, prosecutions and seiz-
 ures under Federal seed act**, 15482

Searcy, James K., drainage of highway pave-
 ments, 8826

Searcy County, Ark., community profile,
 15601

Seas, *see* Ocean.

**Seasonal aspects of infectious diseases and
 their causes**, USSR study, 12877

**Seasonal change revealed by time-lapse pho-
 tography**, 7655

Seasonal labor :
 health services for migratory and seasonal
 agricultural workers, authorization,
 extend, hearings, 16820
 migrant and seasonal farmworkers pro-
 gram in Phoenix, Ariz., effectiveness and
 administration, GAO report, 14309

Seats, classification definitions, 11583

Seattle, Wash. :
 area wage survey, 10022
 maritime industry, prime example of
 progress (remarks), 5612
 model cities program, history and analysis,
 8401

Seawater, *see* Sea water.

Sear, Donald N., objective forecast studies
 and their evaluation and verification, 5081

Sebastian County, Ark., community profile,
 15602

Sebok, Gyorgy, relief, 4030

SEC, *see* Securities and Exchange Commis-
 sion.

Second homes in United States, 10601

**Second-order errors in linearized velocity
 corrections and their effects on rate of
 convergence of iterative solutions**, 6003

Secondary education :
 compensatory, program, 6877-78, 6899-
 6901
 distributive education, post secondary,
 guide for administrators and teachers,
 15638
 elementary and secondary education act—
 amendments of 1969—
 hearings, 5372, 6709, 15473, 16891
 reports, 6695, 7891
 handicapped children, selected projects,
 14143
 PACE, projects to advance creativity
 in education, supplementary centers,
 and services, etc., 5550
 program guides, nos. 44 and 45—A, 14144
 title 1—
 ESEA migrant coordinators meeting,
 report, 8174
 history, 10982
 profiles in quality education, 150 out-
 standing, ESEA, projects, 585
 statistical report, 15643
 title 2—
 annual report, 6866
 elementary school media centers in 3
 inner cities, descriptive case
 studies, 10976
 school library resources, textbooks,
 and other instructional materials,
 special-purpose grant programs, de-
 scriptive case studies, 12439
 title 3, central city educational projects,
 5535
 title 5, grants to strengthen State de-
 partments of education, adminis-
 tration of programs, notes and working
 papers, 1742
 free public elementary and secondary edu-
 cation, 1966-67, current expenditures by
 local educational agencies, 4164
 human investment programs, 4378
 PACE report, 4861

Secondary schools, *see* High schools.

Secrest, Harry C., public roads, journal of
 highway research, 3344

Secret, is it really (poster), 5515

Secret Service, report to the public, 8841

Secretaries :
 employment outlook, 4556
 invitation to live and work in city of op-
 portunity, 8335
 secretarial techniques, student manual,
 16692
 secretary-stenographer, examination an-
 nouncement, amendment, 1640

Secretaries—Continued

- secretary-typist, examination announcement, amendment, 1640
- Secretary of Interior, *see* Interior Department.
- Secretary of Senate, *see* Senate.
- Secretary's letter, HEW, 1979

Securities:

- act of 1933—
 - general rules and regulations, 6222
 - regulations S-X, 1375
 - releases, SEC, 3417
 - credit, by persons other than banks, brokers, or dealers, regulations, 12641, 15729
 - equity transactions and ownership of directors, etc., of Federal reserve member State banks, monthly summary, 3482
 - foreign, interest equalization tax act, extend—
 - hearing, 14025
 - law, 15198
 - reports, 12191, 12198, 15234, 15406
 - summary, 464
 - Treasury Department recommendations, summary, 465
 - industry, problems, hearing, 8056
 - margin stocks, credit by banks for purchasing or carrying, regulations, 12646, 15731
 - market, effect of institutional investors, study, extend time and increase authorization—
 - hearing, 15325
 - reports, 9435, 15285
 - markets, regulation by administrative and self-regulatory agencies, hearings, 9355
 - regulation, NASA remarks (address), 17368
 - securities salesmen, employment outlook, 4548
 - traded on exchanges, annual listing, 10357
 - quarterly supplement, 3419
 - transactions and holdings, 3217
 - United States and foreign, use of illustrations and motion-picture films, and slides, 14851
 - see also* Government securities—National securities exchanges.
- ## Securities and Exchange Commission:
- accounting series releases, compilation nos. 1-112, 13407
 - appropriations, 1970, hearings, 9332, 12-85
 - companies filing annual reports, directory, 1374
 - general rules and regulations under—
 - investment company act of 1940, 2443
 - securities act of 1933, 6222
 - securities exchange act of 1934, 4921
 - laws relating to, compilation, 349
 - member, nomination of—
 - Herlong, A. Sydney, hearing, 15422
 - Needham, James J., hearing, 10889
 - news digest, 3197
 - problems in securities industry, etc., hearing, 8056
 - regulation of securities markets, hearings, 9355
 - releases, 2549, 2609, 2709, 2960, 3007-8, 3079, 3417-18, 3464, 3531
 - report, 1968—
 - departmental edition, 4920
 - document edition, 3960
 - statistical bulletin, 3462
 - study of institutional investors, effect on securities market, etc., extend time and increase, authorization—
 - hearings, 15325
 - reports, 9435, 15285
- ## Securities exchanges:
- act of 1934—
 - amend—
 - hearings, 15325
 - reports, 9435, 15285
 - amended to July 29, 1968, 13408

Securities exchanges—Continued

- act of 1934—continued
 - companies filing annual reports, directory, 1374
 - general rules and regulations, 4921
 - regulations S-X, 1375
 - releases, SEC, 3418
 - code of Federal regulations, 12633
 - regulation, NASA remarks (address), 17368
 - see also* National securities exchanges—Stock exchanges.
 - Security, *see* International security—National security.
 - Security bonds, *see* Savings bonds.
 - Sedges:
 - clik sedge, autecological characteristics, 5760
 - growth, effect of photoperiod at low light intensities, 9854
 - Sedimentary rocks:
 - gold in igneous, sedimentary and metamorphic rocks, 5709
 - Slick Rock district, San Miguel and Dolores Counties, Colo., stratigraphy, 747
 - Sedimentation and deposition:
 - Atlantic Continental Shelf and slope of U.S., color of marine sediments, 5716
 - AUTEC sediment deposition/erosion study interim report, 13219
 - bed forms, generated in laboratory under oscillatory flow, analytical and experimental study, 15648
 - behavior of large particles falling in quiescent liquids, 5719
 - buried sand and gravel deposits in shallow-water areas, technique for location, 13246
 - deposition and erosion of snow by wind, 1573
 - laboratory alluvial channel, response to changes of hydraulic and sediment-transport variables, 15802
 - organic extracts from JOIDES cores off northeastern Florida, 12779
 - radionuclides in bottom sediment of Clinch River, eastern Tennessee, distribution, 7050, 11244
 - reservoir sediment surveys made in U.S. through 1960, summary, 10491
 - sediment—
 - analysis, laboratory theory and methods, 15811
 - movement in area in suburban highway construction, Scott Run basin, Fairfax County, Va., 12796
 - records in relation to St. Louis harbor sedimentation problem, summary and analysis, 12789
 - sediment transport in—
 - alluvial channels (series), 5719, 15802
 - Umpqua River basin, Oreg., 12787
 - Walla Walla River basin, Wash. and Oreg., 15817
 - sedimentation activities, 1967, notes, 14151
 - sedimentation in Piru Creek watershed, southern California, 1974
 - sedimentation in small drainage basins (series), 1974, 15815
 - stream sediments in geochemical exploration for gold interpreting pan-concentration analyses, 11235
 - submarine sediment investigation in vicinity of planned Sealab III habitat, 14725
 - United States and Canada, 1963-65, annotated bibliography, 13534
 - upper Stony Creek basin, eastern flank of Coast Ranges, northern Calif., 15815
- ## Sedimentation test, radioactive sediment tracer tests, Houston Ship Channel, Houston, Tex., 5571
- Seebold, Robert E., short report of unclassified effort at Naval Research Laboratory, 13294

Seed crops, *see* Crops.

Seedbeds:

influence on yellow birch regeneration, 11184

thermal properties and surface temperatures, guide for foresters, 12721

Seeding, *see* Forest planting.

Seedlings:

development of white and Norway spruce trees from several seed sources 29 years after planting, 11174

survival and growth of six northwestern tree species, effects of artificial flooding, 8294

tree, assimilation chamber for—
measuring in laboratory, carbon dioxide exchange, 14286

outdoor measurements of photosynthesis, 14285

see also names of plants or trees.

Seeds:

certifying, uniform standards and procedures—

hearing, 12284

reports, 15362, 16774

eastern white pine seed sources in Lake

States, early growth, 4308

farm supply technology, 2-year post high school curriculum, 5543

Federal seed act—

amend—

hearings, 12284, 13913

reports, 15362, 16774

prosecutions and seizures under the act, 15482

questions and answers, 9496

foreign agriculture circulars, 2902

how to buy lawn seed, 14993

potential damage to forest tree seed processing, protective treatment, and dissemination, 4319

seed and cone insect survey on seed production areas, Clark, Mark Twain, and Shawnee National Forests, 7005

seed crops—

field seed stocks report, 3420

forecast, 3421

seeding habits of swamp tupelo, 17054

trade and tariff information, summaries, 8912

truth in seed labeling, 16552

winterfat, age and year of collection affect germination of seeds, 1920

see also names of plants or trees.

Seeds/adee National Wildlife Refuge:

general information, 16453

master plan, backup volume, 14886

Seedworm pine, *see* Moths.

Seepage, asphaltic membranes for water seepage control, 14826

Segal, Dorothy B., index-catalogue of medical and veterinary zoology, 1498, 10462, 13542-544

Segreto, Vincent A., oral prophylaxis pellet, stable stannous fluoride preparation, 16570

Seiden, Jacob:

Air Force research objectives, 1969, physical sciences, engineering sciences, environmental sciences, life sciences, 15016

OAR 1968 progress, 3689

OAR research review, Office of Aerospace Research, 3212

Seidenstein, S., visual sensing of spacecraft guidance information, earth orbit rendezvous maneuvers, 2194

Seim, Sandra E., temperature, salinity and density of world's seas, East China Sea, 10215

Sein Lin, *see* Lin, Sein.

Seismic waves, *see* Tsunami (tidal wave).

Seismology:

Alaska research studies, seismology and marine geology, 10634

Antarctic seismological bulletin (periodical), 2594

Seismology—Continued

current seismic design practice for nuclear reactor facilities, summary, 13718

decoupling at nuclear level, experiment, Project Dribble, Salmon event, Vela Uniform program, Tatum Salt Dome, Miss., 9074

instruments for seismic stations, improvement and creation, USSR study, 15948

seismic activity during 1968 test pumping at Rocky Mountain arsenal disposal well, 5711

seismic effects of sonic booms, 1000

seismic intensity data used to predict effects of earthquakes and underground nuclear explosions in various geologic settings, 14333

seismic interference and reciprocity for HE row charge, Project Dugout, 13705

seismic observations, Project Vela Uniform, agreement with Canada, 7525

seismological bulletin (periodical), 3422

seismological publications, list, 12058

SH-type seismic shear waves, detection by means of angular accelerometers, 12780

USNS Lynch (T-AGOR) seismic survey of Wilmington Canyon, oceanographic cruise summary, 13258

see also Earthquakes.

Selden, Armistead I., new strategy of Communism in Caribbean, 6711

Select Senate Committee on Technology and Human Environment, *see* Technology and Human Environment, Select Committee on, Senate.

Selected economic indicators (periodical), 3424

Selective service, *see* Conscription.

Selective Service System: appropriations, 1970, hearings, 9332, 12285

legal aspects, 2444

local board memoranda, 3084

reform, message from the President, 9256

regulations, 3432

semiannual report, 14852

Selenite, mineral market report, quarterly, 3433

Self-directive dramatization project, Joliet, Ill., 6875

Self employment, *see* Employment.

Self-instructional course, effective radio use, 11195

Self-organizing systems, bionic aspects of self-organization, USSR study, 7137

Self-preparation stannous fluoride prophylactic in preventive dentistry, 14516

Self-synchronizing bi-orthogonal coded PCM telemetry system, 1146

Selfridge, Thomas O., jr., papers in Library of Congress, register, 16040

Selfridge, Thomas O., sr., papers in Library of Congress, register, 16040

Selig, S. M., naval research logistics quarterly 3173

Sellers, Bach, generation and practical use of monoenergetic X-rays from alpha emitting isotopes, 5163

Sellers, David F., papers in Library of Congress, register, 11362

Sellers, Walter M., jr.:

citrate mannitol agar medium for separating *Escherichia coli* paracolons from *Shigella*, 83

farm labor inputs, 10498

Selling, *see* Markets and marketing—Sales—Salesmen and salesmanship.

Selling job development, 5887

Sells, S. B., definition and measurement of mental health, 14786

Sells Service Unit, Ariz., demographic and socio-cultural characteristics, off-reservation service Indian population, 13337

Semiconductors:

carrier lifetime, measurement, annotated bibliography, 1181

devices, standard, lists, 5502 14101

Semiconductors—Continued

- electronic component of thermal conductivity in semiconductors 1572
- lithium-drifted silicon semiconductor detectors, resolution changes, 1118
- methods of measurement for semiconductor materials, process control, and devices, 2297, 6053, 11526, 16229
- pinch effect, simplified theory and transducer potentialities, 8624
- Seminar on Manpower, Policy, and Program, proceedings, 882
- Semler, Thor T., analysis of gold sphere transmission experiments at 24-keV neutron energy using spin-dependent s-wave statistics, 8651
- Sen, Hari K., electric field in ionosphere, theory of origin and effect, 1533
- Senate:
 - appropriations, 1970, legislative, hearings, 15415
 - calendar, executive, 3067
 - calendar of business, 3052
 - delegation, 9th Mexico-United States Interparliamentary Group meeting report, 15453
 - invitations from foreign governments, etc., President of Senate to respond, report, 4067
 - journal, 90th Cong., 2d sess., 4007
 - majority and minority leaders, history and development of offices of floor leaders, 9382
 - manual, 9378
 - Members, 11st, seating order, etc., 91st Congress, 8094
 - prayers offered by former Chaplain Frederick B. Harris, 89th and 90th Congresses, print as Senate document, report, 8022
 - Secretary, reports, 5389, 13948
 - telephone directory, 7992
- Senate Chamber, *see* Capitol.
- Senate documents, 433-435, 1720-22, 4008-11, 5386-94, 6734-36, 7993, 9378-83, 10818-822, 12246-247, 13948-949 15351-352, 16834
- Senate executive documents, 436, 1723, 5395, 7994-96, 9384, 15353-355, 16835-836
- Senate executive reports, 437-438, 1724-26, 5396, 6737, 7997-98, 9385-86, 10823-824
- Senate reports:
 - private bills, 4012-45, 6738-49, 7999-8017, 9387-9403, 10825-841, 13950-989, 16837-846
 - public bills, 439-454, 1727-28, 5397-5422, 6750-74, 8018-49, 9404-41, 10842-881, 12248-281, 13990-14010, 15356-413, 16847-876
- Senders, John W., human visual sampling processes, simulation validation study, 2208
- Senegal:
 - background notes, 11700
 - foreign economic trends and their implications for United States, 5784
 - mineral industry, minerals yearbook chapter, 2162
- Seney Island National Wildlife Refuge:
 - designate certain lands as wilderness—
 - hearing, 479
 - report, 9430
- Senior citizens, *see* Aged.
- Senior Citizens, Inc., Nashville, Tenn., project report on centralized comprehensive program for older Americans, 11786
- Senior Citizens Month:
 - May, proclamation by President of United States, 6354
 - what is your community doing for Senior Citizens Month, 1969?, 5019
- Sensitivity:
 - empirical observations on sensitivity of hot cathode ionization type vacuum gauges, 11484

Sensitivity—Continued

- function of bias and geometry, in microwave photodiodes, 14754
- neuron sensitivity developments, USSR study, 2097
- sensitivity of creep-rupture properties of nickel-base superalloy sheet, etc., 4679
- strain-rate of 3 titanium-alloy sheet materials after prolonged exposure at 550° F (561°K), 2268
- Sensors:
 - applications of remote sensing to hydrobiological research in South Florida, 12755
 - bends, wires, and films as rocketsonde temperature sensors in mesosphere, theoretical comparison, 4688
 - contaminant and atmospheric, analytical study, phase 1, 16122
 - electronically scanned star sensor with digital output, design, 11483
 - entry length for rocket meteorological radiation shield, 1019
 - image-motion compensation sensor data from Lunar Orbiter I, determination of lunar equatorial radius, 11459
 - rainfall rate sensors, 11023
 - remote, air pollutant detection, study, 13045
 - sight, affect of physical condition, home study driver course, traffic safety, 9163
 - thin film oxygen partial pressure, investigation, 1010
- Sensory deprivation, perspectives on human deprivation, biological, psychological, and sociological influences, 14693
- Senter, Paul K., design for optimum wave conditions Crescent City Harbor, Crescent City, Calif., 606
- Sentinel anti-ballistic missile system, *see* Missiles.
- Separation (military):
 - physical evaluation for retention, retirement and separation, Air Force manual, 3678
- Separation and Purification Section, National Bureau of Standards, summary of activities, 2296
- Separation processes:
 - eluting uranium from ion exchange resins with improved Eluex process, 4648
 - reduction roasting of Steep Rock iron-bearing materials, 5962
 - shock induced effects of Reynolds number and boundary-layer transition location, preliminary study, 4731
- Separators:
 - centrifugal-bowl, classification definitions, 1290
 - test of combustor and ash separators for open-cycle plant, Mines Bureau coal-fired gas turbine research project, 14558
- see also* Magnetic separators.
- Sequential analysis, sequential processing techniques for trajectory estimation, 17196
- Sequoia, giant sequoias, Yosemite National Park (poster), 6089
- Serbian language, *see* Serbo-Croatian language.
- Serbo-Croatian language, Foreign Service Institute basic course, 7490
- Serhousek, M. O., eight-piece concrete sets for small mine openings, progress report, 11389
- Sergeant, Russell L., intelligibility of helium-speech as function of speech-to-noise ratio, 7200
- Sergeant at Arms, *see* House of Representatives.
- Sergeant Bluff, Iowa, railroad accident, report, 11079
- Serial set (congressional), 1677-80, 2933-35, 5308-15, 6558-60, 7821-26, 9231, 10676-678, 12080, 13830-833, 16718-721

Serials:

- catalog of copyright entries, 546, 5471
- medicolegal serials, international bibliography, 1736-1967, list, 13180
- new serial titles—
 - classified subject arrangement, 3193
 - union list—
 - alphabetical arrangement, 3194
 - 3d edition, 1966-67 cumulation, 909
 - nuclear science abstracts, titles cited, list, 194
- Soviet serials, half century, 1917-68, published in USSR, list, 4612
- Series ISP, 5231, 6504-6, 7750-51, 9164, 12018
- Series ISPO 1, 1624
- Serology, fluorescent antibody and associated findings in treating TRIC Agent urethritis, report, 14517
- Serpan, Charles Z., jr., notch ductility and tensile property evaluation of PM-2A reactor pressure vessel, 6140
- Serrana Bank, environment and ecologic zonations, 17371
- Serum and serumtherapy:
 - serum enzyme changes after physical exertion, 14504
 - uric acid levels and leadership in Marine Corps, 14508
- Servants:
 - employment outlook, 4513
 - household employment, quiet revolution (address), 8938
 - labor laws affecting private household workers, 7564
 - social security, household worker statistics, 10372
 - women, private-household workers, fact sheet, 11785
- Service, Karol, labor law and practice in Chile, 5894
- Service abroad of judicial and extrajudicial documents, convention, 6303
- Service and regulatory announcements, Consumer and Marketing Service, 1751, 15483
- Service area directory, 2460
- Service establishments, employment of full time students at special minimum wages, regulations under fair labor standards act, 1490
- Service insurance, *see* Life insurance.
- Service records, *see* Military records.
- Service-station-attendants, employment outlook, 4478
- Service trades:
 - census of business, 1967, area statistics, 13756-757, 15091-98, 16645-652
 - equipment, Federal item identification guides for supply cataloging, supplements, 2844
 - selected services, monthly receipts, 2727
- Service, USDA's report to consumers, 3434
- Servicemen, *see* Armed Forces—Life insurance—Mechanics (persons).
- Serving a growing economy and a growing people, Commerce Dept., 15181
- Servo systems, *see* Servomechanisms.
- Servomechanisms:
 - fast response (150 to 200 Hz) electrohydraulic servos dynamic performance limitations, analysis, 14633
 - fluidic vortex valve servomotor development, 15056
 - human transfer functions application to system analysis, 17225
- Sesco, Jerry A., market for wood picnic structures, 17041
- Setter, Lloyd R., regulations, standards, and guides for microwaves, ultraviolet radiation, and radiation from lasers and television receivers, annotated bibliography, 8803
- Setup men, *see* Job setters (machine shop).
- Setzer, Henry W., directions for preserving mammals for museum study, 13413

- Severe Storms Laboratory, *see* National Severe Storms Laboratory.
- Severing by tearing or breaking, classification definitions, 1288
- Sevier County, Ark., community profile, 15693
- Sewage:
 - agricultural utilization of sewage effluent and sludge, bibliography, 4287
 - batch-feeding studies on high-solids activated sludge for treating concentrated human waste, 3708
 - control of sewage discharged from vessels—
 - hearings, 6728, 6803, 8090, 9490, 12319
 - report, 12281
 - disposal facilities for Indian homes, etc., PHS to supply, public health laws, compilation, 493
 - disposal plant operator, job grading standard, 16684
 - intergovernmental responsibilities in metropolitan areas, 5944
 - microbiologic studies of activated sludge process for recycling of human wastes, 3696
 - plywood plant glue wastes disposal, progress report, 6988
 - sewage and water works construction, contract awards, 6991
 - sewer bond sales, 665
 - sewerage charges, cost of clean water, economic impact, 9834
 - treatment equipment, Federal item identification guides for supply cataloging, supplements, 2845
 - waste disposal—
 - costs of Florida phosphate operation, 7207
 - New York Bight, preliminary investigation, 4890
 - waste water treatment, primer, 17007
 - water and waste disposal loans to associations, provide flexible interest rates, hearing, 13911
- Seward Peninsula, Alaska, eastern, metalliferous deposits near Granite Mountain, 5712
- Sewerage, *see* Sewage.
- Sewing machines, buying secondhand, 8985
- Sex:
 - sex-oriented mail—
 - offensive intrusion into homes, protection, 9364
 - protection of children, legislative proposals, 7861
- Sextants:
 - sighting measurements from on board Gemini XII spacecraft, 2251
 - sighting performance, effects of differing amounts of training and of monochromatic targets, 14605
- Seychelles, background notes, 11692
- SfCSI, special foreign currency science information program, 10632
- Shad, American, general information, 3924
- Shade trees, *see* Trees.
- Shafer, Joseph E., Alaska's economy in case of national economic pause, fiscal strength through oil and gas receipts, 12611
- Shaffer, Jay C., revision of *Peorilinae* and *Ancastlinae* (auctororum) of America north of Mexico, 1203
- Shaffer, John H., nomination, hearings, 9452
- Shaft, J. Burdette, relief, 16763
- Shafts, shaft collars and hub clamps, Federal item identification guide, 15515
- Shakespeare, Frank J., jr., nomination, hearing, 4980
- Shale, C. C., operating characteristics of high-temperature electrostatic precipitator, 11391
- Shale:
 - black shale and associated rocks, element distribution in some trough and platform types, 9886

Shale—Continued

- Fayetteville, Girty's invertebrate fossils from, revision, 15803
- Paleozoic black shales and associated rocks, element distribution, 9885
- Pierre shale, upper part, north-central South Dakota, foraminifers and stratigraphy, 14348
- Shalit, Sheldon, crippled children's program, statistical highlights, 1632
- Shambon, Arthur, low dose measurements with thermoluminescent dosimeters, 7682
- Shands, W. A., controlling potato insects, 3636
- Shanklin, Edward H., spinning performance and yarn quality as affected by lint color and trash in field-exposed cotton, 1966-67 crop year, 13594
- Shannon, Ira L.:
 - effects of atropine on composition of unstimulated human parotid fluid, 15018
 - enamel solubility reduction by stannous hexafluorozirconate, 15017
 - saliva specific gravity, 3699
 - unstimulated human parotid fluid, specific gravity and osmolality, 15021
- Shao-Lin Lee, Richard, theory on afterburning in low-altitude rocket exhaust plume, 10253
- Shapers (tools):
 - industrial plant equipment handbook, 5480
- Shapes:
 - plastic and non-metallic article shaping or treating, processes, classification definitions, 11580
 - shape preserving expansion and contraction of objects in E², 13077
 - structural shapes, nonmetallic, Federal item identification guide, 15317
- Shapes (metal):
 - Federal item identification guides for supply cataloging, supplements, 2845
- Shapiro, Philip, FORTRAN programs for 1st order calculation of properties of beam transport systems, 13278
- Shapiro, W., high performance turboalternator and associated hardware, design of backup gas bearings, 5984
- Shapley, A. H., international geophysical calendars, 6923
- Sharp, U.S.G., report on air and naval campaigns against North Vietnam and Pacific Command-wide support on the war, 6440
- Sharp County, Ark., community profile, 15604
- Sharpe, F. Phillip, lightweight backpack high-voltage electrofishing unit, 16456
- Shaughnessy, John D., determination of stability indicative function for linear systems with multiple delays, 6024
- Shaw, Byron T., analysis of agricultural research in relation to increasing demand for agricultural products, 3668
- Shaw, Charles S., method of determining surface area of cottonseed, 7613
- Shaw, Dale L., costs of commercial drying, storing, and handling rough rice, 12410
- Shaw, Henry I. jr., United States Marine in occupation of Japan, 16045
- Shaw, Manny, electrochemical characterization for nonaqueous systems for secondary battery application, 16141
- Shawano County, Wis.:
 - flood plain information, 15657
 - floods, how to avoid damage, 15654
- Shawe, Daniel R., stratigraphy of Slick Rock district and vicinity, San Miguel and Dolores Counties, Colo., 747
- Shawnee National Forest, seed and cone insect survey on seed production areas, 7005
- Shawsheen River, flood plain information, 9671

Shear (mechanics):

- comparison of shear strength measurements with laboratory vane shear and fall-cone devices, 13245
- diffusion law for dispersion of hard particles in ice matrix that undergoes simple shear deformation, 3744
- fiber-reinforced plastic laminates under uniaxial, biaxial, and shear loadings, behavior, 6457
- loading, oblique loading of unidirectional fiber composites, 6455
- SII type seismic shear waves, detection by means of angular accelerometers, 12780
- shear-stress functions in equilibrium dissociated air, approximate relations for laminar heat transfer, errata, 1049
- strain properties to 10⁻¹⁰ of selected optical materials, 4675
- transverse shear deformation effects in vibrating beams, approximate theory, 11407
- Sheda, Harold E., condition of concrete dams in Puerto Rico, 8828
- Sheep:
 - common liver fluke, general information, 13593
 - corrals, farm building plan, 8974, 16549
 - housing and equipment, 13586
 - on feed, 6312, 7532-33
 - scabies epidemiology, activities, report, 6362
 - sheep and cattle scabies eradication, cooperative State-Federal program, report, 3623
 - sheep chair, farm building plan, 7601
 - stocker and feeder, shipments, 3436
 - toxicity of some herbicides to sheep, 8980
 - see also Lambs.
- Sheep Creek Range, western, Lander County, Nev., geochemical and geophysical anomalies, 1959
- Sheep ranges, see Range lands.
- Sheet metal:
 - Federal item identification guide for supply cataloging, supplements, 2845
 - filament-stiffened sheet, stress concentration around broken filaments, 16191
 - mechanic, job grading standard, 16685
 - nickel-base superalloy sheet, sensitivity of the creep-rupture properties to sharp-edge-notches in temperature range of 1000°-1400° F., 4679
 - setting up sheet piles, construction industry safe work guide, 17149
 - specimens under constant-amplitude loading, elastoplastic stress-strain behavior at notch roots, 11468
- Sheet metal workers, employment outlook, 4550
- Sheets, current industrial reports, 9145
- Sheffler, K. D., mechanical behavior of tantalum-base T-111 alloy at elevated temperature, 16143
- Sheire, James W.:
 - Fort Larned National Historic Site, 17286
 - historic structures report, Ft. Bowie National Historic Site, 8724
- Shekarehi, E.:
 - mineral industry of—
 - Sierra Leone, 14542
 - Southern Rhodesia, 4627
 - Turkey, 7210
 - Zambia, 4631, 16089
- Shell, Haskiel R., fluorine micas, 7203
- Shellfish:
 - Alabama landings, 2585
 - buying guide and recipes for school lunches quantity amounts, cost per portion, 12074
 - California landings, 2640
 - commercial irradiation, with portable ship-board irradiator, final report, 7693
 - Florida landings, 318, 2895
 - Georgia landings, 2939
 - Louisiana landings, 3092, 3911

Shellfish—Continued

- Maine landings, 3095, 13814
- Maryland landings, 3107, 5296
- Massachusetts landings, 3108
- by gear and subarea, 3913
- Michigan, Ohio & Wisconsin landings, 10663
- Mississippi landings, 1665, 3125
- national conference on depuration, resume, 6204
- New Jersey landings, 3187, 7809
- New York landings, 3195
- annual summary, 16711
- North Carolina landings, 3205, 3912, 15182
- Oregon landings, 7808
- radiation pasteurization—
 - annual report, 16625
 - summary report, 190
- Rhode Island landings, 3394, 10662
- sanitary control in Korea, 8815
- sanitation technical report, 6204
- shellfish and products, trade and tariff information, summaries, 10430
- shippers, list, 2651
- situation and outlook (periodical), 3435
- South Carolina landings, 3445, 5295
- Texas landings, 3494
- Virginia landings, 3575
- Shells (structural):
 - applicability of Southwell plot to interpretation of test data from instability studies of shell bodies, 13674
 - axisymmetric shells of revolution, incremental analysis of large deformations in mechanics of solids, 11410
 - buckling of—
 - equatorial segment of spherical shell loaded by its own weight, 1133
 - shells of revolution with various wall constructions, errata, 16120
 - conical and tension shell Mars entry capsules, synthesis of optimum structural designs, 16121
 - conical, subjected to antisymmetric loadings, design, 13143
 - cylindrical—
 - discretely stiffened, with arbitrary end conditions, theoretical analysis of free vibration, 11406
 - fatigue crack propagation, 1018
 - radiation resistance, 17203
 - eccentrically stiffened cylindrical shells under axial compression and lateral pressure, general instability, 4687
 - nearly cylindrical shells, effect of shallow meridional curvature on vibration, 11446
 - orthotropic thin shells of revolution having general meridional curvature, method for computation of vibration modes and frequencies, 4710
 - sandwich and ring-stiffened 120 degree conical, subjected to external pressure, structural optimization, 14589
 - sandwich conical, with fiber-reinforced composite facings, vibration evaluation, 6456
 - shell structures, and centrifugally stabilized disk structures, equilibrium and free vibration problems associated with, 2185, 4660
 - spherical—
 - prestressed segmented, geometric properties, 1032
 - shallow, asymmetric nonlinear dynamic response and buckling, 11419
 - spiral generation of building shells for military construction, 6905
 - transient temperature fields in shells, 11506
 - unreinforced circular cylindrical, in axial compression, effect of test machine extentional rigidity on initial buckling load for, 13670

Shelter belts:

- crowded shelterbelts, release benefits hardwoods, 9867
- North Dakota, major insect pests, distribution and abundance by climate and hostage, 14289
- tree planters' notes, 2530
- Shelters, *see* Housing.
- Shelters (protective), *see* Protective shelters.
- Shenandoah National Park:
 - ancient lavas near Luray, Va., 5701
 - climatic summaries of resort areas, 9719
- Shepard, Maurice C., nongonococcal urethritis associated with T strains of mycoplasma, 14511
- Shepherd, Clarence M., potentiostatic current-potential measurements on iron and platinum electrodes in high-purity closed alkaline systems, 2353
- Shepherd, L. J., relative annoyance and loudness judgments of various simulated sonic boom waveforms, 1016
- Sheppard, Richard A., diagenesis of tuffs in Barstow formation, Mud Hills, San Bernardino County, Calif., 14351
- Sherburne National Wildlife Refuge, birds, list, 1418
- Sherfey, Lester E., soil survey, McPherson County, Nebr., 14876
- Sheridan, William H., legal bibliography for juvenile and family courts, 9172
- Sherman, Windsor L., red-shift-magnitude relation and observational data, 14640
- Sherman, Tex.:
 - flood plain information, 12473
- Post Oak Creek and tributaries, floods, how to avoid damage, 12515
- Sherwood, T. K., continuous washing of brine from ice, 9972
- Shielding:
 - civil defense, and gamma-ray production and transport, special sessions, proceedings, 15074
 - lateral shielding requirements of high energy accelerators, tables for determination, 5153
 - radiation shielding for architects, fundamentals, 266-268
 - rocket meteorological radiation shield, entry length, 1019
 - thermal and radiation shielding of reactor vessel, USSR study, 12952
 - transport of gamma rays through slab shields, experimental and theoretical studies, 13692
 - transverse, calculations for components of $\frac{1}{2}$ TeV proton synchrotron, 7681
 - see also* Heat shields.
- Shields, William R., analytical Mass Spectrometry Section, summary of activities, 1179
- Shields:
 - blast shields testing, 1112
 - shadow—
 - shield in vacuum, thermal analysis, 1099
 - thermal protection of cryogenic tanks in space, experimental studies, 1106
 - shielded thermistor probe with portable instrument for measuring snowpack temperatures, 5672
 - shields for electrical and electronic components, Federal item identification guide, 15504
- Shiller Plant, Pittsburgh, Pa., American Bridge Division, U.S. Steel Corp., transmission towers and parts, effects of importation on employment of certain workers, Tariff Commission report, 17417
- Shigella:
 - citrate mannitol agar medium for separating *Escherichia coli* paracolon from *Shigella*, 83
 - shigelae changes in etiological structure of dysentery in countries of Central and Southern America, Africa, and Asia,

Shigella—Continued
characteristics of geographic distribution, USSR study, 12926
Shigella dysenteriae, *see* dysentery.
Shigo, Alex L., photoguide to patterns of discoloration and decay in living northern hardwood trees, 17042
Shiller, William R.:
head positioning for Panorex-X-ray machine, 928
personal factors in dental disease prevention, test to measure dental health knowledge, 16067
short term clinical evaluation of clay containing dentifrice, 8581
subject acceptance of stannous fluoride treatment, 16063
Shillito, Barry J., nomination, hearing, 4070
Shingles (disease):
herpes zoster, hope through research, 8806
Ship Structure Committee, serial no. SSC, 1376, 2445-47, 4922, 6223, 10358, 11658-659, 13409, 14854, 16400
Shipbuilding:
American shipbuilding for tomorrow (remarks), 12995
construction-differential subsidies, extend 55-percent maximum rate—
law, 12125
reports, 10721, 10864
construction, fitting out procedures, military standards, 9526
flame straightening, effect on base metal properties, 14854
index of estimated shipbuilding costs in United States, 914
new ship construction delivered, etc., ocean-going 1,000 gross tons and over in U.S. and foreign shipyards, 16052-53
per diem payments to prospective crew members of ships under construction in New Orleans, La., Navy Dept., GAO report, 7031
relative costs in various coastal districts of U.S., annual report to Congress, 11367
safety and health regulations, 887
ship designs and components standardization (remarks), 10045
ship structural symbols for use on ship drawings, military standards, 16923
shipbuilding and conversion programs, 13270
U.S., outlook (remarks), 16048
wage chronology, 1941-67, Pacific Coast shipbuilding, 8548
Shipments:
commodities by manufacturers, map, 7754
defense-oriented industries, current industrial reports, 13762
manufacturers'—
current industrial reports, 2732
inventories, and orders, 248
marking, military standard, 9522
selected electronic components 1960-67, consolidated tabulation, 3827
worldwide cargo transportation costs guide, Army pamphlet, 9040, 11940
see also Fish and fisheries—Freight—Refrigerator cars—*also* names of articles shipped.
Shippers:
recovery of reasonable attorney's fees, hearing, 15429
unordered merchandise, shipper's obligations and consumer's rights, 14238
Shipping:
act of 1916 and American importers (remarks), 5611
coastwise transportation of cargo equipment and stevedoring gear, amend act, hearings, 1705
code of Federal regulations, 5634, 8228-29, 12632-633
containerization (remarks), 639

Shipping—Continued
cooperation between government and industry (remarks), 1871
foreign trade reports, 2913, 2918
future of maritime industry (remarks), 915
household goods, guide for civilian employees of U.S. Government, 7040
industry outlook and goals of new Administration (remarks), 9212
laws relating to, compilation, 3943
maritime problems (remarks), 5614
maritime services, radio stations on land, shipboard, etc., FCC rules and regulations, 2831
new view (remarks), 10044
overseas, tests of California citrus on pallets and in containers, interrelations between transit temperatures, biphenyl pad placement, biphenyl content, and fruit condition, 16347
role of Federal Maritime Commission in shipping and shippers' problems (remarks), 6946
Seattle, prime example of progress in maritime industry (remarks), 5612
see also Merchant marine—Transportation—Water carriers.
Shipping clerks, occupations, employment outlook, 4549
Shipping conferences:
and containerization (remarks), 4259
steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 2599, 15710
Shipping containers, *see* Containers.
Ships:
American ships are freedom's lifeline (remarks), 7806
anemometer heights above mean water level, 13244
cargo equipment and stevedoring gear, coastwise transportation of, amend act, hearings, 1705
cargo preference provision of Export expansion and regulation act, hearing, 12287
cargo ship hulls, high-strength low-alloy steel weldments, study of factors which affect adequacy, 16400
Coast Guard, authorization for procurement—
hearings, 6724, 12292
law, 15197
reports, 7889, 7895, 10868
ships and marine equipment, Federal item identification guides for supply cataloging, supplements, 2850
construction, *see* in main alphabet, Shipbuilding.
containerships under construction and on order (including conversions) in United States and foreign shipyards—
June 30, 1968, list, 14485
Dec. 31, 1968, list, 14486
control of sewage from ships—
hearings, 8090, 9490, 12319
report, 12281
conversions and modernizations, fitting out procedures, military standards, 9527
crew members, prospective, of ships under construction in New Orleans, La., Navy Dept., per diem payments, GAO report, 7031
electronic equipment—
maintainability design, criteria handbook for designers, 7390
on shipboard, 13272
exchange for conversion and operation in unsubsidized service to Guam, hearings, 1705
Federal item identification guides for supply cataloging, supplements, 2850
flag containerships and flag ships with partial capacities for containers and or vehicles, U.S. list, 14493-494

Ships—Continued

foreign built or rebuilt, prevent carrying cargoes restricted to U.S. vessels, hearing, 1738
 historic ship exhibits in United States, 8756
 hull girders, feasibility study of model tests, 11658
 land bridge, fact or fiction? (remarks), 12994
 loan, extension, agreement with—
 Korea, Republic, 6280
 Spain, 14911
 maneuvering board manual, 8754
 MARINER cargo ship model in regular and irregular waves, bending moment distribution, 2446
 maritime matters, deployment of—
 U.S.S. Everglades to Malta, agreement, 4971
 U.S.S. Yosemite and U.S.S. Grand Canyon, agreement, 17410
 maritime transportation, consultations, agreement with Brazil, 2493
 maximum rate of interest on ship loans and mortgages, hearings, 1705
 mechanical vibrations of shipboard equipment, military standard, 5498
 merchant fleets of world, oceangoing steam and motor, 1,000 gross tons and over, 12996
 merchant type ships of 100,000 tons in operation, under construction, and on order, 16051
 merchant vessels—
 equipment, Coast Guard approved lists, 299
 United States, monthly supplement, 3145
 midship bending stresses of dry cargo ships full scale data, analysis and interpretation, 11659
 military procurement appropriations, 1970, authorization—
 hearings, 10887, 15302
 reports, 12258, 15295, 16772
 ocean cruise vessels, operating differential subsidy, remove certain limitations, report, 15292
 oceangoing merchant ships, of 1,000 tons and over—
 foreign flag type owned by United States parent companies, Dec. 31, 1967, list, 14489-490
 lost and scrapped during 1968, list, 14491-492
 oceanographic ship operating schedules, 6054, 11530, 13164-165
 oil discharged from vessels, control, hearings, 6728
 oil pollution from vessels, control, hearings, 9362
 partners in the future, ships and ports (remarks), 14488
 passenger lists of vessels arriving at—
 Atlantic and Gulf Coast ports (excluding New York), supplemental index, pamphlet to accompany microcopy, 16220
 Boston, 1848-91, index, pamphlet to accompany microcopy, 14659
 New Orleans—
 1820-1992, pamphlet to accompany microcopy, 14658
 quarterly abstracts, pamphlet to accompany, microcopy, 16218
 passenger vessels—
 legislation, hearing, 13934
 meeting safety standards, disclosure of construction details, eliminate, report, 15291
 reconstruction subsidies, extend 60-percent maximum rate—
 law, 12125
 reports, 10721, 10864
 rules and regulations, 15157

Ships—Continued

passenger vessels—continued
 safety standards, disclosure of construction details, eliminate, hearing, 13934
 propagation and damping of sound vibrations on ships, USSR study, 7153
 radar-equipped merchant ships, collisions, study, and preventive recommendations, 14720
 scupper drain attachments to vessels in drydock, maritime safety data, 14444
 sewage from vessels, control, hearings, 6728, 6803
 ship steels, recommended emergency welding procedure for temporary repairs, 10358
 status of naval ships, report, 5366, 6705
 structural response in waves—
 mathematical models for describing, development, 6223
 utility of computer simulation to predict, investigation, 13409
 surface, schedule of piping, valves, fittings, and associated piping components, military standard, 1790
 towing vessel safety and accident preventive recommendation, 16288
 trust agreements and other evidences of equipment indebtedness, recording, hearing, 404
 U.S., transfer and sale to aliens, 17166
 vessels—
 activated for use in southeast Asia, need to improve procurement procedures for outfitting, Maritime Administration, GAO report, 716
 entrances and clearances, foreign trade summary report, 2917
 pollution study, San Diego Bay, Calif., 12661
 weather observation messages accepted by United States and foreign coastal radio stations, 10454
 who needs ships? you do! (remarks), 15716
 see also Fishing vessels—Hulls (ships)—
 Shipbuilding—Shipping—Steamships—
 Towing—Warships—also names of ships.
 Ships (construction), see Shipbuilding.
 Ships cooks, see Cooks.
 Shipstructure, see Shipbuilding.
 Shipyards:
 earnings, straight-time hourly, indexes of change, 2973
 fire and explosion hazards, 14445
 fishing boat builders, list, 6548
 injuries, analysis of accidents, 8544
 maritime safety digest (periodical), 3104
 safety data, maritime, 8544, 14443-445
 Shlosinger, A. P., heat pipe devices for space suit temperature controls, 16127
 Shneidman, Edwin S., bulletin of suicidology, 6172
 Shock (biological), see Electric shock.
 Shock (mechanical):
 effects of angle of attack and bluntness on shock-layer properties of 15° cone at Mach number of 10.6, 1124
 experimental study of breaking-wave pressures, 1825
 inviscid radiating shock layers about spheres travelling at hyperbolic speeds in air, 10157
 non-Newtonian gelled fluids as shock- and vibration-isolation medium, feasibility study, 15055
 pressures caused by waves breaking against coastal structures, 1826
 shock and vibration—
 bulletins, 1794-95, 4144-45, 12379-383
 supplement, 12384
 digest, 12385
 monograph series, 12386
 shock shapes and pressure distributions for large-angle pointed cones in helium at Mach numbers of 8 and 20, 13120

- Shock (mechanical)—Continued
standoff distances and supersonic aerodynamic characteristics for large-angle cones with and without cylindrical afterbodies, 14613
terrestrial impact structures, bibliography, 9890
use of perforated walls to control shock location and movement in internal-compression supersonic inlet numerical analysis, 13141
see also Thermal shock.
- Shock and vibration bulletin, 1794-95, 4144-45, 12379-383
- Shock tubes:
experiments on snow, 13653
shock tube and ballistic-range experiments, use of absolute radiometers, 16157
- Shock tunnels, nonequilibrium air streams in the Ames 1-foot shock tunnel, analysis, 4717
- Shock waves:
dare-fresh solar plasma in interplanetary space front, apparent local jump in momentum transfer rate, 10249
man's tolerance to direct effects of air blast, estimate, 17123
momentum diffusion between 2 supersonic airstreams in presence, preliminary investigation, 4712
N-wave focusing, laboratory investigation, 13100
plane overdriven detonation wave, on transition to Chapman-Jouquet mode, USSR study, 2074
second-order wave structure in supersonic flows, 16144
shock layer radiative transport, ablation product absorption and line transitions, effect, 5974
shock precursor heating on radiative flux to blunt bodies, effect, 4680
shock wave pressure decay in polycarbonate targets impacted by cylindrical polycarbonate projectiles, 2228
shock waves in real gases, 17256
- Shoe repairmen, employment outlook, 4551
- Shoes, *see* Boots and shoes.
- Shomaker, John W.:
drilling and testing of well 340, Fort Wingate Army Depot, McKinley County, N. Mex., 12767
site study for water well, Fort Wingate Army Ordnance Depot, McKinley, N. Mex., 12788
- Shoop, Lucille T.:
endocarditis, bibliography, 13342
selected references on rheumatic fever, glomerulonephritis and streptococcal infections, 11632
- Shooting:
marksmanship—
competitive, training program, National Guard pamphlet, 10185
ROTC manual, change, 3774
shoot-out in Cleveland, black militants and police, 13326
Shop practice, *see* Machine shops.
- Shore, Charles P., effect of structural damping on flutter of stressed panels, 4720
- Shore protection, effect of particle size and distribution on stability of artificially filled beach, Presque Isle Peninsula, Pa., 15647
- Shoreline, Alaska earthquake, 1964 effects on shore processes and beach morphology effects of tectonic uplift and subsidence along 10,000 miles of shoreline, and practical meaning of those effects, 1967
- Short, Barbara J., Newtonian aerodynamics for circular cones modified to produce lift at zero angle of attack, 10124
- Shoot moths, *see* European pine shoot moths.
- Short and long of it (remarks), 1480
- Shorleaf pine, *see* Pine.
- Shoshone, Colo., railroad accident, report, 11098
- Shotguns, *see* Firearms.
- Shoulder marks, *see* Insignia.
- Shoulders, Eugene, climate at seed source affects longleaf pine performance in Louisiana plantation, 8296
- Shouman, A. R., tables and graphs of functions necessary for solving nonlinear heat transfer constant area fin problems, 10119
- Shoup, Donald C., advance land acquisition by local governments, benefit-cost analysis as aid to policy, 1996
- Showdown for water, 1898
- Shrimps:
breaded—
annual summary, 7810
current fishery statistics, 2893
sanitation guidelines for industry, 3921
Gulf Coast data, 2948
landings, 319, 3437
royal-red shrimp, length-weight relation and conversion of whole and headless weights, 10668
shrimp atlas, Gulf of Mexico, 9224
western Atlantic, of genus *Penaeus*, 12075
- Shrinkage:
and footage loss from drying 4/4-inch hard maple lumber, 4324
longitudinal, in 7 species of wood, 12697
- Shrubs:
Cape Perpetua area, Siuslaw National Forest, 702
ornamental pruning, general information, 5045
trees and shrubs of Penobscot Experimental Forest, Penobscot County, Maine, 17043
- Shufeldt, Robert W., papers in Library of Congress, register, 11364
- Shuhly, Joseph L.:
oceanographic observations North Atlantic Ocean—
Station Bravo, 15155
Station Echo, 15156
- Shulman, Harry, highlights from age and benefits distributions for aged, beneficiaries, 11670
- Shultz, George P.:
addresses, etc.—
Mar. 21, 1969, 8539
Mar. 26, 1969, 7162
May 1, 1969, 8537
May 6, 1969, 8538
Aug. 19, 1969, 14438
Sept. 29, 1969, 15998
Oct. 2, 1969, 16003
Oct. 17, 1969, 17137
nomination, hearing, 4095
- Shumpert, P. K., model test of jet-induced lift effects on VTOL aircraft in hover, 7233
- Shurtleff, Wilburn O., reliability handbook for silicon monolithic microcircuits, failure mechanisms of monolithic microcircuits, 8600
- Shut it down! college in crisis, San Francisco State College, 13327
- Shutters, dipole shutter, transparency for eye protection, 9009
- Siam, *see* Thailand.
- Siberia:
Academy of Sciences, USSR, Siberian Division, study, 15965
east coast, sailing directions, charge, 10236
- Siciliano, Rocco C.:
addresses, etc.—
May 1, 1969, 7806
May 21, 1969, 9212
Sept. 15, 1969, 15163
Sept. 24, 1969, 15162
Sept. 29, 1969, 15175
Oct. 24, 1969, 16705
Oct. 25, 1969, 16703
Oct. 28, 1969, 16704
nomination, hearings, 9452
- Sick:
acute conditions, incidence and associated disability, statistics, 11643

- Sick**—Continued
chronically ill, use of special aids in homes for, statistics, 2432
income-loss protection against illness, 2159
smoking and illness, effects of tobacco, etc., 13375
see also Absenteeism.
- Sick pay**, *see* Pay, allowances, etc.
- Sideslip** (aircraft):
computing span loads and stability, derivatives due to sideslip, yawing, etc., for wings in subsonic compressible flow, theory, 2239
- Sidewalks**, military installations, geometric design, etc., Army technical manual, 5125
- Siding**, asphalt and tar, current industrial reports, 2732
- Siefert, Richard E.**, biology of white crapple in Lewis and Clark Lake, 7475
- Siegel, Arthur I.**, increasing ASW helicopter effectiveness through communications training, 6134
- Siegel, P. V.**:
aviation medicine, FAA, 1610
medical factors in U.S. general aviation accidents, 10584
- Siegel, Robert**, analysis of 2 dimensional inviscid model of jet impingement under vertical-takeoff airplane, 13092
- Siemens, Richard E.**, effect of microstructure on superconductivity in columbium-hafnium system, 10059
- Siemens Aktiengesellschaft**, Siemens and nuclear power stations with pressurized water reactors, 3793
- Sierra Ancha Experimental Forest** flora and vegetation, 696
- Sierra Cucillo Mountains**, northern, Socorro County, N. Mex., mineral deposits, geochemical evidence, 740
- Sierra Leone**:
agricultural commodities, agreement, 10423
capsule facts for Armed Forces, 1557
economic trends and their implications for United States, 14421
mineral industry, minerals yearbook chapter, 14542
- Sierra National Forest**, Mammoth-High Sierra Recreation Area, general information, 8251
- Sierra Nevada**, crest, needle miner infestations in lodgepole pine east of, 681
- Sight**:
assessment of Broca-Sulzer phenomenon via inter- and intra-modality matching procedures, studies of signal-light brightness, 10582
atmospheric paths of sight, directional reflectance, 13306
binocular fusion time in sleep-deprived subjects, 10583
effect on vision of repeated exposure to carbon dioxide, 12999
effects of peripheral vision cues on pilot performance during instrument flight in dissimilar aircraft simulators, comparison, 10579
human visual sampling processes, simulation validation study, 2208
methods for predicting spacecraft-window-induced line-of-sight deviations, 13076
monocular recognition of letters and Landolt Cs in left and right visual hemifields, 10047
peripheral vision cues—
effect on pilot performance, 5194
pilot response, during instrument flying tests, 6481
peripheral vision displays, 2201
postflight optical evaluation of right-hand and left-hand windows of Gemini missions IV, V, VI, and VII, 2234
sensors, effect of physical condition, home study driver course, traffic safety, 9163
- Sight**—Continued
stabilized vision, fundus tracker for experiments in, research study, 997
underwater distortions of visual stimuli responses to, 927
underwater visibility of colors with artificial illumination, 7199
vision testing and correcting, classification definitions, 1297
visual acuity under water without a face mask, 16069
volunteers with vision, 912
see also Color blindness—Color perception—Perception.
- Sighting sextant** sighting measurements from on board Gemini XII spacecraft, 2251
- Sights** (ordnance):
sextant sighting performance and effects of differing amounts of training and of monochromatic targets, 14605
- Sigma** phase formation and its effect on stress-rupture properties of IN-100, 10122
- Signal lights**, *see* Lights and lighting.
- Signal systems**:
Federal item identification guides for supply cataloging, supplements, 2846
traffic signals, effects of alcohol on decisionmaking with respect to, 13350
- Signalmen**, 3 & 2, Navy training course, 6133
- Signals**:
amplitudinal fluctuations of signal reflected from flight vehicle method for compensating, USSR study, 12935
control and guidance signals derived from optical fields, techniques for generation, 16146
digital computer system for signal analysis, 7385
international code, for visual, sound, and radio communications, 6126
processing signals with variable pulse repetition frequency, 2055
quadrature components of signals reflected from randomly rough surface, statistical characteristics, USSR study, 7130
radio, optimal processing, digital method, USSR book, 5872
two-flash thresholds as function of flash luminance and area, 7726
variability of bottom reflected signals using deep research vehicle Alvin, 13213
see also Radar—Radio signals.
- Signs**, international distinctive signs and emblems, military standard, 550
- Signs** (advertising):
control on highways, amend U.S. Code, hearings, 12321
- Signs** (road):
durable rustic wooden signboards, 17040
- SIL** series, 7455, 13413-414
- Silage**, feed bunks for cattle, farm building plan, 1511
- Silanes**, cloud stabilizers, 9721
see also Methylsilanes—Tetraethoxysilane.
- Silberling, N.J.**, stratigraphy of Star Peak Group (Triassic) and overlying lower Mesozoic rocks, Humboldt Range, Nev., 7053
- Silberman, Lawrence H.**, nomination hearing, 8085
- Silen, Roy R.**, cooling Douglas-fir seed orchard to avoid pollen contamination, 12705
- Silica**:
fused, optical absorption and fluorescence during TRIGA pulse irradiation, 1015
reaction of graphite with silica in vacuum, effect of physical parameters, 2174
- Silicates**, minerals solubilities, in saline waters, 17097
- Silleides**, coatings for nitridation-oxidation protection of chromium alloys, exploratory study, 11448

- Silicon:
annealing of 22-, 40-, and 158-MeV proton damage in n- and p- type silicon, 8622
changes in minority-carrier lifetime resulting from irradiation with 22- and 40-MeV protons, 6000
electron detectors, tables of response functions, 14673
lithium drifted—
detectors as low-energy photon spectrometers, 7253
semiconductor detectors irradiated, resolution changes, 1118
minerals yearbook chapter, 17192
monolithic microcircuits, reliability handbook, 8600-1
N/P, and cadmium sulfide solar cells as affected by hypervelocity particle impact performance, 8625
N on P silicon solar cells, performance, effects of nickel, 13136
n-type, proton-produced defects, 1066
radiochemistry, 3800
silicon monolithic microcircuits, reliability handbook, 10085
transmission of electrons through thick silicon targets, 6019
- Silicon carbide:
experimental backward diode operable to 1000° K, development, 8642
growth of 2H silicon carbide crystals, 13105
- Silicon oxide, pyrolytic decomposition studies of tetraethoxysilane for obtaining high-grade SiO₂ films, 3739
- Silk:
spun yarn, suspension of duty, continue—law, 12113
reports, 7903, 9436
- Silos, braced wall, farm building plan, 46
- Siloxanes, degradation at high temperature, and effect of cerium-based inhibitor, hypothesis, 10268
- Silsby, Norman S., simulation studies of some supersonic transport instrumentation requirements and operating problems, 13088
- Silt, effects of silt turbidity on behavior of juvenile largemouth bass and green sunfish, 7475
- Silver, Sonia S., relief, 13889
- Silver:
amalgam, restorative material, laboratory testing with stannous fluoride, 10529
anomalous concentrations in Mill Canyon area, Cortez Quadrangle, Eureka and Lander Counties, Nev., 743
gold and silver content manufactured articles misrepresentation of quality—
hearing, 10891
report, 9424
mineral industry surveys, monthly reports, 2941, 3438
minerals yearbook chapter, 984, 17193
production and consumption, 1967, report, 13032
sales limited to small business concerns, Treasury Dept., GAO report, 12750
single crystals, dislocation pipe diffusion, 14745
United States movements.—
annual, 6509
monthly, 2921
- Silver City, N. Mex., area, water resources appraisal, 12790
- Silver (money):
coinage act of 1969, proposed legislation (statement), 16517
Domestic Gold and Silver Operations Office, procedures and descriptions of forms, 13512
Mint Bureau, report, 13032
Silver phosphate, glass microdosimeters, effects of laboratory reprocessing, 3703
Silviculture, *see* Forests and forestry.
- Similitude, *see* Transformations (mathematics).
- Simmons, David C., maturity and spawning of skipjack tuna in Atlantic Ocean, with comments on infestation of ovaries, 5307
- Simmons, George C., geology and mineral resources of Barao de Cocals area, Minas Gerais, Brazil, 745
- Simmons, Henry B., model study of Galveston Harbor entrance, Tex., 5574
- Simmons, Samuel J.:
addresses, etc.—
Aug. 18, 1969, 14384
Sept. 6, 1969, 15822
Sept. 24, 1969, 15843
Oct. 14, 1969, 17088
nomination, hearing, 5431
- Simon, Kenneth A., digest of educational statistics, 1968 edition, 1805
- Simons, Joseph W., home heating, systems, fuels, controls, 1503
- Simons, M. D., oat diseases and their control, 29
- Simpich, Frederick, nomination, hearings, 1737
- Simplified test for adhesive behavior in wood sections exposed to fire, 4305
- Simplified theory and transducer potentialities of pinch effect in semiconductors, 8624
- Simpson, William T.:
effect of—
restrained swelling on wood moisture content, 676
transverse compressive stress on loss of wood moisture, 677
stress-strain behavior of films of four adhesives with wood, 1911
- Simulation:
adaptive, using mode identification, 1009
analysis of numerical integration techniques for real-time digital flight simulation, 1117
decompression sickness in simulated space flight, treatment, 85
electron analog, of ion containment in magnetic fields, analysis, 8653
expending storable-propellant products simulated by combustion of gaseous reactants, experimental measurements, 14642
fixed-base visual simulation of pilot-controlled descents of an advanced Apollo spacecraft with all-flexible parawing, 7255
Goddard Research and Engineering Management Exercises, evaluation, 4685
ground, and flight, human transfer characteristics for roll tracking task, 4734
human visual sampling processes, simulation validation study, 2208
impedance simulation fixtures for spacecraft vibration tests, development, 10086
in-flight, used to determine simultaneous usage of attitude control for VTOL maneuvering, 13119
infrared heating simulation of Mach 4.63 flight on X-15 horizontal stabilizer, evaluation, 16165
investigation of utility of computer simulation to predict ship structural response in waves, 13409
Monte Carlo simulation for origin-destination surveys, 11647
optical simulation of radio astronomy interferometer experiment, 16156
performance of non-jet experienced pilots versus simulation fidelity, 1255
pyrolysis-gas flow through char layer during ablation, 16197
simulated orbital flight, decompression stress, 93
simulating management of even-aged timber stands, 697

Simulation—Continued

- simulation of—
 - complex systems, USSR study, 17136
 - Gemini extravehicular tasks by neutral-buoyancy techniques, 11462
 - package transfer concepts for Saturn I orbital workshop, 10107
- use of tetrafluoromethane to simulate real-gas effects on hypersonic aerodynamics of blunt vehicles, 11499
- visual, image generation using flying-spot scanner, 7300
- weightlessness, experiments, mechanisms of reducing orthostatis tolerance, USSR study, 5832
- Simulators:**
 - all attitude air bearing research and training simulator—
 - external drive system for, 1547
 - used in physiologic research on human tumbling, 6417
 - experiments and a model for pilot dynamics with visual and motion inputs, 10076
 - fixed-base pilot rating surveys for predicting lateral directional handling qualities and pilot rating variability, 14615
 - human transfer functions application to system analysis, 17229
 - lunar gravity, 4667-68
 - rendezvous and station-keeping with fly around capability and virtual-image viewing, 7290
 - simulated heat exchanger tube, fouling characteristics of ASTM Jet A fuel when heated to 700° F in, 2257
 - six-degrees-of-freedom motion simulator for VTOL hovering tasks, 14630
 - sonic boom, techniques and measurement devices, investigation, 12595
 - space environment simulator, infrared spectral irradiance measurements, 11449, 14601
 - see also Aircraft simulators—Flight simulators.
- Sindermann, Carl J., oyster mortalities, with particular reference to Chesapeake Bay and Atlantic Coast of North America, 1669
- Sindt, C. F., slush hydrogen fluid characterization and instrumentation, 6051
- Singapore:**
 - economic trends and their implications for United States, 11303
 - extradition treaty, 17411
 - Republic, background notes, 17400
 - trade in cotton textiles, agreement, 7493
- Singer, Joseph M., aspects of aerodynamics of formation of float coal dust clouds, 10053
- Singh, Jag J., transmission of 2.43 MeV electrons through thick silicon targets, 6019
- Single persons, see Unmarried persons.
- Singleton, Arthur L., Jr., sources of nuclear fuel, 3820
- Singleton, Eben L., electrowinning aluminum from aluminum chloride, operation of 2-compartment cell, 4636
- Sinking of USS Guitarro, 10770, 12208
- Sintering, see Lime-soda sintering.
- Sioux Falls, S. Dak., area wage survey, 7177
- Sioux Indians:**
 - Cheyenne River Tribe, lands, hold in trust, reports, 14005, 16782
 - Rosebud Tribe, sale and exchange of isolated tracts of tribal land, reports, 13996, 16780
 - Standing Rock tribe, lands, hold in trust, reports, 13998, 16781
- Sires, see Bulls.
- Slrups, two automatic slrnp drawoff controllers, 6360
- Sisco, H. G., record of observation wells and water level fluctuations in Aberdeen Springfield area, Bingham and Power Counties, Idaho, 8357, 14355
- Sisneros, Thomas E., research and development of single gun color CRT, 2200

- Sisseton Reservation, area, resources, history, present, potential, 9951
- Site indexes, curves, constructing from measurements of tree age and height, and its application to inland Douglas fir, method, 690
- Sites:**
 - embassy sites, agreement with Union of Soviet Socialist Republics, 14907
 - planning safe snow play sites, 12692
 - powersites at Tyee, Eagle, and Spur Mountain Lakes, southeastern Alaska, geologic reconnaissance of possible sites, 5697
 - selection, for Sentinel anti-ballistic missile system, briefing, 3983
 - steam power plant site selection, considerations affecting, report, 2442
 - veterans hospitals, need for acquiring of sites before developing working drawings and specifications, Veterans Administration, GAO report, 12747
 - water wells, Fort Wingate Army Ordnance Depot, McKinley County, N. Mex., study, 12788
 - winter sports, pilot test of sampling procedures for estimating recreation use, 1936
 - see also Historic sites.
- Siu, Kenneth, relief, 4035
- Siushaw National Forest, Cape Perpetua area, woody trees and shrubs, 702
- Sivier, K. R.:
 - magnetic field properties related to design of a 1-component magnetic support and balance system, 10087
 - one component, magnetic, support and balance system for wind tunnel models, 10088
 - subsonic sphere drag measurements at intermediate Reynolds numbers, 13050
- Skid resistance studies by Bureau of Public Roads, 14820
- Skilling, see Skis and skiing.
- Skilled trades, see Occupations.
- Skilled workers, see Labor.
- Skilling, Darroll, Scleroderma canker in Lake States, situation report, 1968, 11177
- Skin:**
 - flammability of skin and hair in oxygen-enriched atmospheres, 10525
 - membranes-hema polymers, development, 8415
 - percutaneous introduction of cardiac catheters, simple method, 14497
- Skin diving, see Diving.
- Skin friction (aircraft):**
 - effect of fluid injection on skin-friction coefficient of incompressible turbulent boundary layer, investigation, 9057
 - local friction, charts for interpolation, from experimental turbulent velocity profiles, 10099
- Skinner, F. C., farlery, classification definitions, 1283
- Skins, see Leather, hides, and skins.
- Skipjack tuna, see Tuna fish.
- Skis and skiing, national forests, America's playgrounds, 3663
- Skolnik, Alfred M.:
 - social welfare expenditures, 2456
 - workmen's compensation payments and costs, 2458
- Skolnick, Jerome H., politics of protests, violence, violent aspects of protest and confrontation, 13324
- Skookumchuck River, flood plain information, 12452
- Skop, Richard A.:
 - static configuration of tri-moored, sub-surface, buoy-cable array acted on by current-induced forces, 13297
 - static equilibrium configuration of cable arrays by use of method of imaginary reactions, 10257
- Skryabin, Konstantin I., biography, 2080

- Sky:**
monthly and seasonal mean global charts of brightness from ESSA 3 and ESSA 5 digitized pictures, 1838
two-micron sky survey, preliminary catalog, 16150
- Skyline logging, see Lumbering.**
- Skywater project, see Project Skywater (atmospheric water resources program).**
- Slabs, transport of gamma rays through slab shields, experimental and theoretical studies, 13692**
- Slaby, Jack G., heat-transfer coefficients for hydrogen flowing through parallel hexagonal passages at surface temperatures to 2275 K, 4706**
- Slag:**
Inductoslag melting of titanium, 11383
production of nominal slag compositions, 4651
slag-iron and steel, minerals yearbook chapter, 14561
titaniferous, liquidus temperatures, 4651
- Slana area, Alaska, distribution, gold and some base metals in eastern Alaska Range, Alaska, 11236**
- Slash, see Forests and forestry.**
- Slash pine, see Pine.**
- Slate, Carolina slate belt, Albemarle Group, stratigraphy, 4352**
- Slater, R. L., JAG Journal, 3015**
- Slattek, Eugene H.:
mineral industry of—
Cyprus, 13014
Kenya, Tanzania and Uganda, 2149
Senegal, 2162
Tunisia, 16088**
- Slaughtering:**
beef on farm, 13585
commercial slaughter, meat and lard production, etc., 8905
livestock, monthly report, 3082
- Slavet, Joseph S., new approaches to housing code administration, 8778**
- Sledge, Oliver D.:
effective length and internal impedance of elements of receiving array, 10262
scattered-field response of a linear array to step-function illumination, 10260**
- Sleep:**
autonomic response to auditory stimulation, 15019
deprivation, effect of rapid eye movement (dreaming) on retention of avoidance learning in rats, 8580
sleep-deprived subjects, binocular fusion time, 10583
- Sleeve marks, see Insignia.**
- Sleeving (insulating):
electrical, Federal item identification guide, 6834**
- Slick Rock district, Colo.:
geologic investigations in San Miguel and Dolores Counties, Colo. (series), 747
San Miguel and Dolores Counties, stratigraphy, 747**
- Slidefilms, see Filmstrips.**
- Slincy, Harold E., rare earth fluorides and oxides, exploratory study of their use as solid lubricants at temperatures to 1800° F (1000° C), 11490**
- Slip laws, see Law.**
- Slippers, see Boots and shoes.**
- Slipstream, see Propellers.**
- Sloan, A. D., computer program for dimensional analysis, 10116**
- Sloane, Christopher, relief, 6624**
- Slopes, and embankment foundations, stability analysis, electronic computer program, 16382**
- Slushing:**
lateral, in cylinders under low-gravity conditions, 6010
propellant slosh loads, NASA space vehicle, design criteria, structures, 2214
- Slota, Robert W., soil survey, Vernon County, Wis., 16439**
- Slots, drag reduction due to gas injection through various discrete slots on 3-dimensional wing at Mach 2.01, 13101**
- Sludge, see Sewage.**
- Slum clearance, see Slums.**
- Slums, clearance, local public agency letters, 3086**
- Slurries:
materials handling research, hydraulic transportation of coarse solids, 14549
slurry explosives for use in potentially flammable gas atmospheres, development, 977**
- Slush hydrogen fluid characterization and instrumentation, 6051**
- Slutz, R. J., short-term radio propagation forecasts in southeast Asia, 6915**
- SM-1A reactor, see Reactors (atomic).**
- SM series, 3870, 7761, 9177, 10620**
- Small-area data activities, 3439**
- Small arms, see Firearms.**
- Small Astronomy Satellites, see Satellites.**
- Small business, see Business.**
- Small Business Administration:
administration of disaster loan program in connection with 1964 Alaska earthquake, GAO report, 9873
Administrator, nomination of Hilary J. Sandoval, hearing, 6779
after college what? career opportunities with SBA, 8847
appropriations, 1970—
hearings, 10767, 16878
report, 12192
black capitalism in ghetto, backed by SBA and Labor Department, 4194
crime against small business, report, 6735
print as Senate document, report, 8026
disaster loan programs, hearings, 12288
disaster loans to restore or replace businesses and homes, 1377
economic opportunity loan program, 7447
need for improved administration and increased effectiveness, GAO report, 8357
impact of crime on small business, hearings, 14062
lease guarantee program, staff review and analysis, 4073
legislation for 1969, report, 13994
loan guarantees, clarify authorization, report, 13993
National Advisory Council members to have major role in SBA (remarks), 8849
organization and operation—
hearings, 15334
report, 1695
press releases, 3324
publications—
for sale booklets, 7451, 17369
free management assistance publications, list, 6225, 13411
Small Business Administration—
and investment act with amendments, compilation, 354
services to forest products industries, 7449
starting and managing series, 17370
Small Business Advisory Council, report, 5467
Small Business, Select Committee on, House:
committee print, 13942
final report, 90th Congress, report, 5344
hearings, 423, 1710-13, 4003, 15333-334
investigations and studies—
expenses, report, 6677
problems, authorization, report, 5348
publications of membership, list, 1941-68, 77th-90th Congresses, 7976
reports, 1695-96, 3978, 5344, 6645-46
subcommittee report, 3979
Small Business, Select Committee on, Senate:
hearings, 1745, 4100-1, 5465-66, 8095, 10920, 14062, 16899**

- Small Business, Select Committee on—Con.
investigations and studies, small and in-
dependent business problems—
authorization, report, 5419
expenses, report, 5398
reports, 454, 6735
- Small craft, gale, and storm warning facili-
ties chart, 11782
- Smalley, Glendon W.:
volume tables and point-sampling factors
for—
loblolly pines in plantations on
abandoned fields in Tennessee, Ala-
bama, and Georgia highlands, 8313
shortleaf pines in plantations on
abandoned fields in Tennessee, Ala-
bama, and Georgia highlands, 8317
- Smallry smiles, guide for teaching dental
health in community care programs, 14696
- Smetling:
electrorefined vanadium, some strain-ag-
ing effects, 4643
refining zinc-base die cast scrap using low-
cost fluxes, 16106
- SMI (supplementary medical insurance), see
Health insurance.—Medical care.
- Smilko, Anthony, relief, 7874, 13843, 13984
- Smith, Aaron:
anti-depressant drug studies, 1955-1966,
bibliography and selected abstracts, 8797
studies on effectiveness of antidepressant
drugs, 14801
- Smith, Alphonsa, analysis of molecular beam
system utilizing known pressure, source,
13102
- Smith, Alvin L., jr., selected climatological
bibliography for Thailand, 9004
- Smith, C. F., Gasbuggy, gas quality investiga-
tion program, status report, 7698
- Smith, C. R.:
addresses, etc.—
Oct. 12, 1968, 314
Oct. 16, 1968, 309
Oct. 18, 1968, 315
Nov. 1, 1968, 316
hot cycle rotor/wing composite research
aircraft, 6450
- Smith, Carl B., let's be practical about
reading, 14137
- Smith, Clarence T., Army research and de-
velopment, magazine, 2605
- Smith, Dixie R., in vitro digestibility of
alpine forages in Wyoming, 14288
- Smith, Donald W., sextant sighting measure-
ments from on board Gemini XII space-
craft, 2251
- Smith, Edward J., Spanish-surname farm
operators in southern Texas, 9641
- Smith, Edwin B., nomograms correlating dose
of MMH with blood levels, 16572
- Smith, Gerard C., nomination, hearing, 5142
- Smith, Harlie L., jr., modern written Arabic,
11710
- Smith, Harvey H.:
area handbook for—
Afghanistan, 6436
Iraq, 9049
Lebanon, 15049
Thailand, 169
- Smith, J. B. and wife, sand and gravel con-
veyance, 13975
- Smith, James L., shock tube experiments
on snow, 13653
- Smith, James R., nomination, hearings, 8076
- Smith, James V., nomination, hearing, 5425
- Smith, Jerry D., quantum theory of particle-
oscillator collision applied to gas-surface
interactions at cryogenic temperatures,
2269
- Smith, Joan Merriam, honor the memory,
report, 8040
- Smith, John E., New York State economic
development planning, status report on
role of economic research, 12394
- Smith, John W.:
determination of dawsonite and nahcolite
in Green River formation oil shales,
13028
theoretical relationship between density
and oil yield for oil shales, 7218
- Smith, Maureen R., selling in East Africa,
9206
- Smith, North, determining dynamic proper-
ties of snow and ice by forced vibration,
15039
- Smith, Patsy B., Middle Miocene foraminifers
and stratigraphic relations in Adelaida
quadrangle, San Luis Obispo County, Calif.,
731
- Smith, Paul F., underwater hearing in man,
sensitivity, 13902
- Smith, Richard E., using adhesives in small
plants, 11661
- Smith, Robert G., relief, 10704
- Smith, S. H., study of hydrogen evolution
during aqueous oxidation of mild steel,
14750
- Smith, Strether, capacitive measurement sys-
tem for nondestructive testing of fiber glass
reinforced plastic laminates, 13671
- Smith, William L.:
improvement of clear column radiance
determination with supplementary 3.8u
window channel, 14163
polynomial representation of carbon dioxide
and water vapor transmission, 6920
statistical estimation of atmosphere's
geopotential height distribution from
satellite radiation measurements, 6921
- Smith, Winchell, feasibility study of use of
acoustic velocity meter for measurement
of net outflow from Sacramento-San Joa-
quin delta in California, 14372
- Smith Sound, current measurements, 1648
- Smithsonian Astrophysical Observatory, SAO
Standard Earth (C-5), GEOS 1 tracking
station positions, 11435
- Smithsonian Institution:
annual report—
departmental edition, 10362
document edition, 9249
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793
citizen regent of Board of Regents—
appointment of McNamara, Robert S.,
report, 8022
appointment of Watson, Thomas J.,
jr.—
law, 12115
reports, 8030, 9297
reappointment of Brown, John N.—
law, 12112
reports, 8031, 9296
contributions to—
anthropology, 1382, 2315
botany, 13415, 16103
earth sciences, 7454
paleobiology, 14859
zoology, 11662, 13416-430, 14860, 16104,
17373-376
information leaflets, S11, series, 7455,
13413-414
international exchange service, annual re-
port, 13431, 16405
miscellaneous collection, 1383, 11663
National Collection of Fine Arts, National
Portrait Gallery, general information,
13163
publications, price list, 2107
rates of compensation for certain positions,
establish, hearings, 12318
Smithsonian torch (periodical), 3440
Woodrow Wilson International Center for
Scholars, establish—
law, 343
report, 413
- Smits, Rudolf, half century of Soviet serials
1917-68, bibliography and union list of
serials published in USSR, 4612

- Smoke:
 produced by burning aircraft interior materials, 6038
 smoke operations, Army field manual, change, 3753
 stacks, various atmospheric phenomena and related aspects, 1349
 Smoke generators, chemical smoke generator units, Army field manual, change, 3753
 Smokestacks, tall stacks, various atmospheric phenomena, and related aspects, 13356
 Smoking:
 and health—
 bibliographical bulletin, 6206
 bibliography, 13362
 experiments, demonstrations, and exhibits, 2430
 facts, 11615
 and illness, effects of tobacco, etc., 13375
 cigarette smoking may be hazardous to your health (poster), 11608
 deprivation, psychological and physiological changes, 5927
 facts on smoking, tobacco, and health, 4880
 health consequences, Public Health Service review, 13346, 17339
 if you must smoke, 5 ways to reduce risk, 13348
 smoker's self-testing kit—
 interpretation of test scores, 8817
 tests, 8816
 tests and interpretation of test scores, 14807
 smoking and pregnancy, fact sheet, 11614
 tobacco, and health, information, 13376
 what we know about children and smoking, 2435
 what's new in print?, 6215
 what's new on smoking in films?, 6214
 your smoking affects two lives, ask your doctor, 13384
 Smoot, George F.:
 calibration and maintenance of vertical-axis type current meters, 753
 measurement of discharge by moving-boat technique, 5725
 Snails, military importance of Mediterranean snail complex, conference proceedings, 14509
 Snake River and Valley:
 catastrophic late Pleistocene Bonneville flood in Snake River Plain, Idaho, 750
 fish passage report, Ice Harbor Dam, 14148
 Snake venom, *see* Venom.
 Snakes, envenomation, cryotherapy treatment, 14507
 SNAP (systems for nuclear auxiliary power), *see* Atomic auxiliary power generators.
 Snively, David R., regulations, standards, and guides pertaining to medical and dental radiation protection, annotated bibliography, 13344
 Sniegosi, P. J., determination of ester composition of neopentyl polyol ester lubricants, 6141
 Snieszko, S. F.:
 columnaris disease of fishes, 11687
 freshwater fish diseases caused by bacteria belonging to genera *Aeromonas* and *Pseudomonas*, 1409
 Snipes:
 hunting, possession, transportation, and/or importation, 1969-70, in United States, etc., Federal regulations governing, 14884
 Wilson's, hunting, possession, transportation, importation, 1969-70, Federal regulations governing, 13461
 Sniping, Fleet Marine Force manual, 17162
 Snitko, Joseph A.:
 conferring citizenship posthumously, 12099
 relief, 9264, 13962
 Snodgrass, Marjorie P., economic development of American Indians and Eskimos, 1930-1967, bibliography, 8406
 Snoqualmie National Forest, 1968 report, 14292
 Snow, Elliot, papers in Library of Congress, register, 16035
 Snow, J. Wendell, fall armyworm, use of virgin female traps to detect males and to determine seasonal distribution, 15005
 Snow:
 accumulation and melt in demonstration cuttings of ponderosa pine in central Arizona, 1919
 attenuation of visible light by falling snow, 15038
 conditions, weather and crop bulletin (periodical), 3600
 deposition and erosion, by wind, 1573
 determining dynamic properties of snow and ice by forced vibration, 15039
 electrolytic conductivity of snow and glacier ice from Antarctica and Greenland, 1574
 experimental snow runway pavement in Antarctica, 3749
 Federal-State-private cooperative surveys—
 Arizona, 3583
 Colorado—
 and New Mexico, 3584
 early season report, 2466
 special snow report, 8868
 Idaho, 3585
 Montana, 1408, 3586
 Nevada, 3587, 16422
 summary, 1910-67, 6239
 Oregon, 3588, 17392
 Utah, 3589
 Washington State, 3590
 western United States, including Columbia River drainage in Canada, 3591, 4942
 Wyoming, 3592
 investigation and exploitation of snowfield sites, 7651
 methods of building on permanent snow fields, 3751
 microspherules in snow and ice-fog crystals, 11930
 mountain snow cover, temperature profiles, 1918
 nonsteady one dimensional compressible fluid flow through anisotropic porous media, 3745
 planning safe snow play sites, 12692
 runways, design criteria, 3750
 shock tube experiments on snow, 13653
 snow—
 and ice, surface measurements for correlation with aircraft and satellite observations, 10542
 on ground, classification outline, 14290
 pillow records, 1968 water year, 1403
 snowpack accumulation, melt, and runoff on small Arizona watershed, observations, 5676
 snowpack temperatures, shielded thermometer probe with portable instrument for measuring, 5672
 solar radiation effect on processed snow in engineering construction, 1577
 surface, atmospheric humidity measurement near, 1924
 surveys, Alaska, 2875
 see also Precipitation.
 Snyder, E. B., mountain longleaf pine excels only in local plantings, 8301
 Snyder, Hue Kim, *see* Nguyen, Van Hue.
 Snyder, Richard G.:
 experimental impact protection with advanced restraint systems, preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness, 16636
 fatal injuries resulting from extreme water impact, 10578
 impact injury to pregnant female and fetus in lap belt restraint, 10580

Snyder, Richard G.—Continued
 pathology of trauma attributed to restraint systems in crash injuries, 16635
 Snyder, Thomas E., control of nonsubterranean termites, 10479
 So you want to be a forester?, 11196
 So you're a scientist or engineer now, 6422
 Soap:
 and soap-products, Federal test method standard, change, 6983
 effect of solubilized methanol on micelle size in nonpolar solvent, 2357
 trade and tariff information, summaries, 6316
 Soapstone, minerals yearbook chapter, 16107
 Sobin, Irving M., Chemical Co., Inc., relief, 13905
 Sobey, Francine, volunteer services in mental health, annotated bibliography, 16379
 Sobin, Irving M., Co., Inc., relief, 13905
 Social and Rehabilitation Service:
 Administrator, appointment and confirmation to be made by the President, by and with advice and consent of Senate, report, 6760
 cooperative research and demonstration grants, 14973
 international cooperation, programs, contribution of, 17378
 international research and demonstration projects, annotated listing, 8853
 new directions in helping people help themselves, 13433
 research briefs, 3383
 Social life and customs, see Manners and customs.
 Social sciences:
 and mental retardation, family components, 4787
 knowledge into action, improving Nation's use of social sciences, report, 13202
 research, papers available, listing, 2899
 see also Sociology.
 Social scientists:
 employment outlook, 4552
 professional opportunities, examination announcement, 291
 Social security:
 account numbers, 1967 issuance, research and statistics note, 8856
 act—
 amend—
 law, 15204
 report, 10846
 drugs, coverage under title 18, findings of Health, Education, and Welfare Dept., 3966
 medical assistance financed under public assistance titles, 2298, 7323, 8673, 16235
 services for children and families under titles 4 and 5, 7756
 State, public assistance plans under, characteristics, general provisions, eligibility, assistance, administration, 13434
 amendments of 1967—
 cost standards of drugs, findings of Health, Education, and Welfare Dept., 3967
 retirement test, report, 6570
 summary and comparison for prior law, 9457
 amendments of 1969, draft bills, summaries, and other material transmitted by Health, Education, and Welfare Dept., the President's proposals, 16826
 amendments, SSI—series, 6236
 beneficiaries, who reach 100, 1388
 benefits—
 disability rights and responsibilities of recipients, 1397, 17383
 employment of widowed mothers, facts, 16417
 how you earn them, how much credit you need, how to estimate amount, 1401

Social security—Continued
 benefits—continued
 persons disabled since childhood, 10371
 bulletin, 3441
 statistical supplement, 11671
 coverage of—
 Federal personnel, 11669
 Philippine citizens employed by USAID, JUSMAG, and Peace Corps, agreement with Philippines, 10419
 disability evaluation, handbook for physicians, 7464, 10378
 employer's tax guide, 5765
 farmers, self-employed, getting social security credit, 1401
 Federal health insurance, Federal health insurance for the aged, rulings, 16413
 the future is now, 8861
 handbook, 10379
 health insurance—
 for the aged, July 1, 1967, number insured, 4936
 for the disabled, report, 5730
 medicare handbook, Spanish edition, 10380
 household worker statistics, 10372
 medical insurance, medicare handbook, 7463
 program—
 fiscal impact, 4938
 in United States, 1398
 protect your future through social security, 6234
 protection, relating to Federal civil service, report, 4937
 publications, price list, 4866
 research and statistics notes, 2454-59, 4938, 6235, 8856-59, 10368-371, 11669-670, 13436-437, 16416-419, 17382
 rights and benefits based on disability, regulations, 13441
 role in economic development, 4940
 rulings on Federal old-age, survivors, disability, and health insurance, 3442, 10373
 self-employed people reporting their income, special information, 4941
 social security—
 disability program, answers for doctors, 17384
 for the aged, International, perspectives, working paper prepared for hearing, 14013
 for clergymen and religious workers, tax information, 8439
 special information for people who receive cash tips, 1400
 State public assistance, medical assistance, and child welfare services plans, staff development provisions, 10364
 student beneficiaries, 1965-68, 8859
 survey of disabled, reports, 1392-95, 6231, 7458
 today, discussion of some current issues in social security, 13439
 what social security disability program means to you and your patients, answer for doctors, 1399
 your earnings record, 1103, 8860
 your social security, 1402, 7462
 see also Disability insurance—Old age insurance—Public assistance—Unemployment insurance.
 Social Security Administration:
 actuarial notes, 1386-87, 6227-29, 8854, 10366, 11664, 13435, 14861-863, 16409-410, 17380
 actuarial study series, 7457, 16411
 cooperative research and demonstration grants, 14973
 disclosure of official records and information, regulation, 16415
 District Office Operations Bureau service area directory, 2460
 HIR series, 16413

Social Security Administration—Continued
 medicare payments for services of supervisory and teaching physicians at Cook County Hospital, Chicago, Ill., GAO report, 17055
 medicare program, hospital eligibility, need for timely action in resolving problems, GAO report, 1948
 regulation, 16415
 research reports, 1396, 4939, 7459, 13438
 SSI series, 1399-1404, 6237-38, 7460-64, 8860-61, 10374-380, 13440, 16420-421, 17384
 TIB series, 13441
 Social service, *see* Social work and problems.
 Social surveys:
 Atlanta, case study in household sample surveys editing and coding, Spanish edition, 1624
 pseudoreplication, evaluation and application of balanced half-sample technique, 6209
 Social welfare, *see* Social work and problems.
 Social work and problems:
 biological, psychological, and sociological perspectives on human deprivation, 14693
 civilian casualty, social welfare and refugee problems in South Vietnam, hearings, 15465
 effective patterns of services to unmarried parents (speech), 3865
 four-dimensional public problem solving (address), 5737
 national trends in services to unmarried persons (speech), 3866
 nursing homes and related facilities, social services guide, 6180
 poor people at work, annotated bibliography on semi-professionals in welfare services, 10363
 research relating to children, studies in progress, 6511, 15124
 reservation and economic effects on reservation industrial employment on Indian employees and their families, 9950
 responsibility to care (address), 4930
 service programs for families and children, guides on Federal regulations governing, 9171
 social needs in low and moderate-income housing, report, 1314
 social service representative, examination announcement, 3886
 social services—
 children and families in your State, 6510
 Federal assistance programs, 5519
 statistical report, 2307, 8675, 14676
 social welfare expenditures, 2456
 public programs in United States, 1396
 social work student attitudes and knowledge about mental retardation, effect of differences in curricula and experiences, 6060
 staff development, public welfare agencies, progress report, 2301, 17268
 systems technology application, 16894
 telling it like it is, making it like it could be (remarks), 1608
 voluntary welfare agencies, fund-raising within Federal service, manual, 3101
 working with the disadvantaged, 55
see also Public welfare.
 Social workers:
 child welfare personnel, Federal grants for training, 5236
 employment outlook, 4553
 examination announcement, 3886
 public assistance caseworkers, appointments, separations, promotions, analysis, 1977
 public welfare personnel—
 1966 data, 2305
 1967 annual statistical data, 2304
 1968 annual statistical data, 16408
 support personnel use in vocational rehabilitation field, training guide, 1369

Socialism:
 Maoism, threat to socialism in China, USSR study, 8515
 principles of people's control applied, USSR study, 5859
 speeds scientific and technical progress, USSR study, 15983
 Socialist Federal Republic of Yugoslavia, *see* Yugoslavia.
 Socialist unity against imperialist strategy urged, USSR, 845
 Society:
 dynamics of technology and society, no compromise with ignorance (address), 10955
 humane society or environmental chaos (remarks), 16348
 packaging's effect on, Government view (address), 215
 science, and society, bibliography, 3809
 Socio-economic factors affecting participation in water-oriented outdoor recreation, 8156
 Socio-economic profile of 1965 farm wage force, 8153
 Socio-economic projections for subregions of Northeast Corridor, 14945
 Sociologists:
 employment outlook, 4552
 supply and demand in educational institutions and other settings, 14808
 university training urged, USSR study, 5833
 Sociology:
 bibliography, 1520
 current Soviet political and sociological news, 2054
 demographic and socio-cultural characteristics, off-reservation service Indian population, Sells Service Unit, Ariz., 13337
 development digest (periodical), 2765
 Eastern Europe, translations, 3508
 electronic computer for processing sociological information, USSR study, 2072
 mathematics role in, USSR study, 4433
 problems of general and social prognosis, USSR study, 12941
 USSR, scientific progress and sociological predictions, 12945
 Sockeye salmon, *see* Salmon.
 Socorro County, N. Mex.:
 Bosque del Apache Grant, ground water explorations, 12775
 geology of Mockingbird Gap quadrangle, 749
 Monticello Box area, northern Sierra Cu-chillo, mineral deposits, geochemical evidence, 740
 Sodium:
 and sodium compounds, minerals yearbook chapter, 13029
 atom, multiphoton ionization, 15073
 axial-flow pump in liquid sodium, cavitation damage and effect of fluid temperature on performance, 16202
 boiling tests in single tube-in-shell heat exchanger over range 1720° to 1980° F (1211 to 1355K), 11495
 cavitation damage to cobalt base alloy in sodium, effect of temperature and pressure, 11478
 Ch-12r pumped sodium loop, 999
 chemical reactions between uranium dioxide, most abundant fission products, water and sodium, study, 1597
 cooled reactors performance evaluation of heat exchangers, 13721
 dawsonite and nahcolite in Green River formation oil shales, determination, 13028
 liquid—
 at 1500°F (1089K), performance and cavitation damage of axial flow pump, 7296
 of high oxide content, solubility of nickel, 14751

Sodium—Continued

relationships between sodium ion activities and soil physical properties, and salinity tolerances of certain tropical soils, 8419
round robin analysis for oxygen in, evaluation of results, 4709, 11434

Sodium chloride, see Salt.

Sodium hydroxide, solution, anodic oxidation of hydrogen on iron and platinum, 6137

Sodium sulfates, contained in properties of sea water and solutions, 2009

Soenda Strait, sailing directions, change, 6121

Soft drinks, mixes, effect on germicidal properties of iodine tablets, 14510

Software of change (address), 15176

Softwoods:

plywood—

construction and industrial, standard of trade, 14668-669

current industrial reports, 9146

Soil conservation:

and domestic allotment act, amend, hearings, 7941

Appalachian land stabilization and conservation program, 6397

around the world, 11673

conservation operations program, opportunities for increasing effectiveness, GAO report, 17066

conservation practices, engineering field manual, 13442

districts, status of organization, by States, etc., 1406, 14872

soil conservation (periodical), 3443

statutes, compilation, 1502

Texas, 14873

Soil Conservation Service:

activities, 15000

appropriations, 1970—

hearings, 7945

reports, 9311, 12254

conservation highlights, digest of progress, report, 8862

conservation information, CI series, 8863

conservation operations program, opportunities for increasing effectiveness, GAO report, 17066

engineers in SCS, 13596

helping to renew America's resources, general information, 8863

national engineering handbook, 13443

SCS national engineering handbook, 11672

soil science career, 11875

technical publication, TP series, 1407

technical releases, 14880

Soil erosion:

areas other than airfields, Army technical manual, 16599

mass wasting in coastal Alaska, 17052

suburban erosion, 58

Soil moisture, see Soils.

Soil scientists, career for you, SCS, 11875

Soil temperature, see Soils.

Soils:

agriculture-related pollution control, report, 3634

atoll types in relation to distribution of fallout radionuclides, 5183

bacterial endotoxins and plague, USSR, 850

certain tropical, salinity tolerances and relationship between sodium ion activities and soil physical properties, 8419

containing cotton plant residue, probabilities of obtaining uniform planting depths, 11790

Crow Indian Reservation, Mont., soil and range resources inventory—

Garvin Basin, 12822

Pryor Mountains, 12821

forest, improved technique for taking hydraulic conductivity cores, 17026

formation and microbiological succession, influence of Sitka alder on landslide of alpine origin at Mount Rainier, 12707

Soils—Continued

frost, device for measuring, 17028

frozen—

interpreting neutron probe readings, 17022

laboratory determination of dynamic moduli, 10541

fumigants to control spread of Fomes annosus, 15770

gyrator compaction of soil—

crushed limestone, data report, 12558

pit-run clay gravel, data report, 1829

herbage production differs with soil in pinyon-juniper type of Arizona, 9851

humus, coal-derived, plant growth effects, 981

Idaho's soil surveys, soils and people, what they can do for you, 14866

layered flow and retention of water, 8949

moisture-tension data for selected soils on experimental watersheds, 1496

multilayered systems, freeze or thaw, method for digital solution of modified Berggren equation to calculate depths, 5110

production capabilities of some Upper Rio Puerco soils of New Mexico, 682

prunice, of central Oregon, can thinning slash cause nitrogen deficiency? 680

resource planning in Wyoming, how soil surveys help, 14871

simple, quantitative method for assaying soil for inhibitory fungi, 17030

soil as engineering material, 14839

soil bank programs, statutes, compilation, 1502

soil freezing effects on water yields, 5673

soil moisture tension variation on cutovers in southwestern Oreg., 4327

soil-projectile system, application of similitude to model design, 1027

soil sealing chemicals and techniques, 805

soil survey, interpretations for woodlands in southern—

Blue Ridge area of Georgia, North Carolina, South Carolina, and Tennessee, 17391

Coastal Plain and Blackbelt areas of Arkansas, Louisiana, Oklahoma, and Texas, with average rainfall of 25 to 30 inches during frost-free period, 16440

soil survey investigations reports, 13448

soil survey laboratory data and descriptions, Alabama and Florida, 13448

soil survey reports—

Allen County, Ind., 10381

Barren County, Ky., 8864

Belknap County, N.H., 6240

Ben Hill and Irwin Counties, Ga., 7465

Bulloch County, Ga., 8865

Carver County, Minn., 2462

Case County, Iowa, 8866

Clarke and Osceola Counties, Ga., 8867

Clay County, Iowa, 11674

Collin County, Tex., 13444

Crowley County, Colo., 6241

Delaware County, Ohio, 13445

East Baton Rouge Parish, La., 6242

Gallatin County, Ill., 14874

Genesee County, N.Y., 10382

Haskell County, Kans., 2463

Howard County, Tex., 7466

Hughes County, Okla., 6243

Jenkins County, Ga., 6244

Lake County, Tenn., 14875

McPherson County, Nebr., 11876

Major County, Okla., 7467

Mitchell County, Tex., 11675

Montgomery County, Ill., 14877

Muskegon County, Mich., 6245

Oklahoma County, Okla., 6246

Oklmulgee County, Okla., 10383

Osceola County, Mich., 11676

Perry County, Ind., 14878

Pierce County, Ga., 4943

Soils—Continued

- Pike County, Pa., 11677
- Plymouth County, Mass., 11879
- Plebe County, Ohio, 1314
- Salem County, N.J., 11678
- San Benito, Calif., 17390
- Schoharie County, N.Y., 16138
- Scotts Bluff County, Nebr., 6247
- Tensas Parish, La., 2464
- Vernon County, Wis., 16439
- Washabaugh County, S. Dak., 13147
- Washington County, Ark., 10384
- Washington County, Okla., 6248
- Westmoreland County, Pa., 4944
- Worth County, Mo., 2465
- soil temperature variations on semidesert habitat in southern Arizona, 9848
- soil temperatures under forest and grassland cover types in northern New Mexico, 5670
- soil type influence on growth of swamp chestnut oak seedlings, 9861
- sprinkler irrigation, soils, climate, and land classification, 14841
- stabilization for roads and streets, engineering and design manual, 13661
- suspended, natural filtering by stream at low flow, 8291
- topography and soil relations for white and black oak in southern Indiana, 4325
- treatment, aid in termite control, 3642
- water storage and related physical characteristics of 4 mineral soils in north central Minnesota, 17023
- Sokitch, Miloye M., relief, 13879
- Sokolowski, Daniel E., characterization of pressure perturbations induced in rocket combustor by machine gun, 8652
- Sokolowski, T. J., deep sea release mechanism, 614
- Sokoto Province, Nigeria, western, exploratory drilling for ground water, 12770
- Solar, Angel, relief, 6743
- Solar batteries:
 - N/P silicon and cadmium sulfide, as affected by hypervelocity particle impact performance, 8625
 - N on P silicon solar cells, effects on nickel on performance, 13136
- Solar cells, *see* Solar batteries.
- Solar concentrators:
 - calorimetric evaluation of three 1.5 meter-diameter inflatable rigidized solar concentrators, 11461
 - paraboloidal, surface temperatures in space, parametric analysis, 8628
 - stretch-formed aluminum solar concentrators, calorimetric, optical, and vibration investigations, 1108
- Solar cycles, fBEs for solar cycle minimum, numerical maps, 14167
- Solar energy:
 - effects on VHF communications between synchronous satellite relay and earth ground stations, 8618
 - interplanetary probe missions with solar-electric propulsion systems, 13097
 - radiometric techniques applicable to, measurement of solar activity and atmospheric attenuation at millimeter wavelengths, 10155
 - solar Brayton heat receiver, transient solidification outside cooled pipe with application to, 1114
 - solar distillation development program, of Spain, technical cooperation, 4403
 - two cone-column solar-energy concentrators, calorimetric evaluation, 7281
- Solar flares:
 - contribution of X-ray and extreme ultraviolet radiation of solar flares to sudden frequency deviations, 9725
 - flare-fresh solar plasma in interplanetary space front, apparent local jump in momentum transfer rate, 10249

Solar flares—Continued

- ionospheric disturbances associated with proton flare—
 - 0026 UT, July 7, 1966, analysis, 1834
 - 1522 UT, Aug. 2, 1966, analysis, 4217
- solar flare occurrence times and flare patrol times, 1955-64, comparison, 1552
- solar X-rays, using as indicators of solar-flare activity, 13295
- Solar-illuminated algal photosynthetic exchanger, 1540
- Solar power, *see* Solar energy.
- Solar radiation:
 - contribution of X-ray and extreme ultraviolet radiation of solar flares to sudden frequency deviations, 9725
 - determination in eastern tropical Pacific methods used by Scripps Tuna Oceanography Research Program, 5302
 - effect on processed snow in engineering construction, 1577
 - NRL SOLRAD 9 satellite, Solar Explorer B, 1968-17A program, 13283
 - X-ray emission during flight of Apollo 8, 13304
- Solar sails, Helioogyro solar sailer, summary report, 11409
- Solar system:
 - abbreviated calendar record, 1966-67 activity and events, 4225
 - international geophysical calendars, 1957-69, solar and geophysical information, 6923
- Soldiers:
 - BCT handbook, 10545
 - volunteer, who served from 1784-1811, compiled service records, index, microcopy, pamphlet accompanying, 1163
- Soldiers' Home, District of Columbia:
 - appropriations, 1970—
 - hearings, 9330
 - report, 12197
- Solenoids, 1-component magnetic support-and-balance system, magnetic field properties related, 10087
- Solicitor, Interior Dept.:
 - appropriations, 1970—
 - hearings, 7946
 - reports, 12171, 15398, 16793
- Solicitor, Treasury Dept., records, preliminary inventory, 1172
- Solid electrolyte system for oxygen regeneration, 11413
- Solid propellants, *see* Propellants.
- Solid wastes, *see* Waste products.
- Solidification, transient, outside cooled pipe with application to solar Brayton heat receiver, 1114
- Solids:
 - continuum theory for elastic solid with elastic micro-inclusions, 7241
 - large deformations in mechanics of solids with applications to axisymmetric shells of revolution, incremental analysis, 11410
 - micromorphic elastic solids, compatibility conditions of theory, 1034
 - molecular, dynamics and structure, 10175
 - solid material comminution or disintegration, classification definitions, 4842
 - solid reductants, metallization of iron ores, 14554
 - water containing in excess of 1000 ppm of total dissolved solids in communities of over 1000 population, 15859
- Sollno, Francisco R. Fabre, *see* Fabre, Frank R. S.
- Solomon, Dale S., reliability of tree-height measurements in northern hardwood stands, 7009
- Soltis, Richard F., overall performance of tandem-bladed inducer tested in water, 8626
- Solubility:
 - aluminum, in presence of hydroxide, fluoride, and sulfate, 8383

- Solubility**—Continued
cuprous chloride in hydrochloric acid, analysis, 1537
enamel, reduction by stannous hexafluorozirconate, 15017
nickel in liquid sodium of high oxide content, 14751
oxygen in tantalum, 5978
refractory metals and alloys in potassium and in lithium, 11417
solubilities of—
molybdenum and tungsten in liquid potassium, 17248
silicate minerals in saline water, 17097
tooth enamel during, FBM patrol, in vivo assessment, 923
vanadium, titanium, and zirconium in liquid potassium, 7270
- Solutes:**
effect of growth parameters on substructure spacing in NaCl ice crystals, 9030
movement in Potomac River estuary at Washington, D.C., at low inflow conditions, 14337
rejection of various solutes by reverse osmosis membranes, study, 11285
review of ductilizing of group via elements by rhodium and other solutes, review, 2254
- Solutions, aqueous solution, rate of decomposition determined by NMR techniques, 1267A**
see also Solubility.
- Solvents:**
nonpolar, effect of solubilized methanol on micelle size, 2357
stability and recovery in solvent extraction desalination, 800
see also Extraction (chemistry).
- Somali Republic:**
capsule facts for Armed Forces, 113
economic trends and their implications for United States, 17117
- Somalia, French Territory of Afars and Issas boundary, study, 4965**
- Some evolving conventions and standards for character information coded in 6, 7, and 8 bits, 10179**
- Somerdale, N.J., railroad accident, report, 11100**
- Somerset County, N.J., Beden Brook basin floods, extend and frequency, 15797**
- Somerset township, Pa.:**
flood plain information, 12472
floods, how to avoid damage, 12485
- Sommer, Robert W., evaluation of contact-analog display in landing approaches with helicopter, 10146**
- Sommerfeld, R. A., classification outline for snow on ground, 14290**
- Sonar:**
riverbank echo-ranging system for riverine positioning, 13247
submarine, consideration of hi-fi earphones, 16065
see also Echolocation (physiology).
- Sondermayer, Roman V., mineral industry of Bulgaria, 13013**
- Sonic boom:**
aircraft, effects of operation, 12581
aircraft noise and sonic boom research and development (paper), 5680
dynamic response of structural elements exposed to sonic booms, 10070
experiments, survey, 12600
far-field, shock strength and impulse independent of body length and volume, investigation, 8631
propagation in stratified atmosphere, with computer program, 7235
research, 1958-68, 11050
seismic effects, 1000
signatures in stratified atmosphere, development, 1109
simulation device, research and development, 13043
- Sonic boom**—Continued
simulator, techniques and measurement devices, investigation, 12595
supersonic flow field about axisymmetric body with N wave pressure trace, estimate, 1141
theory, 12598
variability in sonic-boom signatures measured along 8000 foot linear array, 4747
waveforms, various simulated, relative annoyance and loudness judgments, 1016
- Sonin, Ain A., hydrodynamic theory of desalination by electrodialysis, 802**
- Sonnenreich, Michael R., handbook of Federal narcotic and dangerous drug laws, 2181**
- Sooley, Zumrut, relief, 6623**
- Soon-Hie Cho Young, *see* Young, Soon-Hie Cho.**
- SORAC computer program, *see* Computer programs/programming.**
- Sorecery, *see* Withecraft.**
- Sorenson, Clara T., review of State labor laws enacted in 1968, 16011**
- Sorghum:**
grain, evaluation of malathion as protectant against insects in small bins, 10486
sudangrass hybrids for forage, description, varieties, etc., 7588
- Soriano, Frank S.:**
records of Department of State relating to internal affairs of—
Asia, 1910-29, pamphlet, 13154
Austria-Hungary and Hungary; pamphlet accompanying microcopy, 2278
British Asia, 1910-29, pamphlet, 6032
Peru, 1910-29, pamphlet, 13155
Siam, 1910-29, pamphlet, 6033
records of Department of State on political relations between—
Costa Rica and other States, pamphlet accompanying microcopy, 2276
Liberia and other States including U.S., pamphlet accompanying microcopy, 13152
United States and Asia, 1920-29 and between Asia and other States, 1914-29, pamphlet to accompany microcopy, 11511
United States and Austria-Hungary and Hungary, 1921-29, etc., 2279
United States and Central America, and between Central America and other States, pamphlet accompanying microcopy, 13153
United States and Persia, and between Persia and other States, 14661
United States and Siam, 1910-29, 10170
- Sorkin, Alan L., American Indians industrialize to combat poverty, 8559**
- Sorption, *see* Adsorption.**
- Sorrells, Russell B., III, drag reduction due to gas injection through various discrete slots on 3-dimensional wing at Mach 2.01, 13101**
- Soucie, William G., effects of pH, CO₂ and buffering systems on lactic acid production in rat liver slices, 13631**
- Soule, James, experimental forced air pre-cooling of Florida citrus fruit, 8971**
- Sound:**
acoustic-gravity waves in atmosphere—final program, 15670
symposium proceedings, 9718
acoustic mode combustion instability, measured effects of gaseous flow system dynamics, 7265
acoustic research, NRL tank facility, 10259
acoustic waves, observations of, in the ionosphere following nuclear explosions, 1835
attenuation provided by perforated earmuffs, 1548
BCEF acoustical workshop, proceedings, 13821

Sound—Continued

- biological effect of high-frequency ultra-sound, USSR study, 5816
- circumferential waves on aluminum cylinders in water, by means of pulses, experimental examination, 13281
- correlation of fluctuating forces with sound radiation from rigid flow spollers, 10082
- coupled acousto-mechanical systems, transient response, 14588
- diffraction of cylindrical hydroacoustical wave at junction of 2 semi-infinite plates, USSR study, 15952
- dynamic response of liquid jet atomization to acoustic oscillations, analysis, 13117
- effect of—
 - finite thickness elastic solid tubes enclosing liquid cylinder of interest, 10265
 - ocean bottom on sound generation by surface waves and dependence of sound velocity on depth, USSR study, 15929
- loudness judgments and relative annoyance of various simulated sonic boom waveforms, 1016
- marine acoustics, USSR study, 5839
- noise, sound without value, report of Committee on Environmental Quality, 8207
- perception in the honeybee, experimental proof, USSR study, 12916
- phenomenological theory of loudness, 16173
- physics of sound in the sea, 16318
- power plant acoustics, Army technical manual, 3777, 7666
- propagation and damping of sound vibrations on ships, USSR study, 7153
- selected acoustic stimuli, in normal human ears, threshold of stapedius reflex, 8575
- sound-scattering layers near Key West, Fla., some investigations, 13276
- sound velocity cross sections of world's oceans, eastern North Pacific, 13236
- speech intelligibility in stationary multipath channel, 14515
- ultrasounds—
 - detection and measurement of fatigue cracks in notched specimens, errata, 2221
 - detection of calcium sulfate scale on metal surfaces, 11284
 - Fokker adhesive bond test (R), military standards, 10954
 - propagation parameter measurements systematic errors, effect of finite thickness elastic tubes enclosing liquid cylinder of interest, 10265
 - relaxation in aqueous solutions, investigations, 8416
 - ultrasonically formed emulsions, laboratory oil recovery tests with, 14559
 - vibration effect on precipitation hardening of steels and superalloys, 7292, 13071
- underwater—
 - hearing in man, sensitivity, 13002
 - principles and applications, 6153
- video tape recording of ultrasonic test information of ship construction, 2445
- see also Noise.
- Sound, The, see Oresund.
- Sound recording and reproducing equipment, speech reinforcement system for Senate Chamber, authorize, report, 6772
- Sound recordings:
 - recordings, etc., trade and tariff information, summaries, 1465
 - speech recordings, comparison, in room air at ground level and in helium-oxygen mixture at simulated altitude, 5083
 - urban outlook, bibliography, 12816
- Sounding and soundings, see Echo sounding.
- Sounding rockets, see Rockets.

- Souris-Red-Rainy River Basins Commission, report, 5332
- South (U.S.):
 - changing patterns of U.S. trade in non-agricultural products and impact on Southern economy (remarks), 4422
 - cost of transporting freight, 12865, 12867-868
 - fig growing for home use, 16540
 - fresh fruit and vegetable unloads in southern cities, by commodities, States, etc., 6810
 - mid-south—
 - forest research news, 2922
 - pole and piling production, 1939
 - pulpwood production, 1937
 - regional variations in specific gravity of seven pines, 11186
- South Africa:
 - agricultural trade, 1970 and 1975 projections, 572
 - canned deciduous fruit industry, 15747
 - capsule facts for Armed Forces, 5099, 9019
 - economic trends and their implications for United States, 2030, 9990
 - Lesotho, capsule facts for Armed Forces, 1563
 - mineral industry, minerals yearbook chapter, 5945
 - plant quarantine import requirements, 5023, 11800
 - Roberts Victor Mine, partially melted kyanite eclogite from, 7454
 - South Africa and United States foreign policy, hearings, 10786
 - South West Africa, mineral industry, minerals yearbook chapter, 968
 - Swaziland, background notes, 4950
- South America:
 - Atlantic Coast, surface water temperature and density, 296
 - characteristics of geographic distribution of shigellae changes in etiological structure of dysentery in countries of, USSR study, 12926
 - climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
 - graphs, 1842
 - maps, 4221
 - east coast—
 - lights and fog signals, list, changes, 2334, 8750, 16301
 - tide tables, 9195
 - nautical charts and publications, catalog, 10227
 - sailing directions, changes, 6114, 16299
 - UNITAS IX cruise, oceanographic cruise summary, 13255
 - west coast—
 - lights and fog signals, list, changes, 6127, 13264, 17301
 - tide tables, high and low water predictions, 6532
- South Asia, see Asia.
- South Atlantic slope basins, see Atlantic States.
- South Atlantic States, see Atlantic States.
- South Bend, Ind.:
 - area wage survey, 11344
 - railroad accident, report, 11093
- South Carolina:
 - Agricultural Stabilization and Conservation Service—
 - annual congressional district summary—
 - 1st Congressional District, 13577
 - 2d Congressional District, 13578
 - 3d Congressional District, 13579
 - 4th Congressional District, 13580
 - 5th Congressional District, 13581
 - 6th Congressional District, 13582
 - annual report, 11844-845
 - census of business, 1967, retail trade, area statistics, 9110
 - climatological data, 2662

South Carolina—Continued
 electric rate book, 1878
 Federal outlays, report of Federal Government's impact by State and county, 9572, 9621
 landings—
 annual summary, 5295
 fish and shellfish, 3445
 mineral industry, minerals yearbook chapter, 967, 17190
 Northeast Coastal Plain area, rural housing, 10966
 nutrition and human needs, hearings, 8087
 pine sawtimber price behavior, 11190
 precipitation data, hourly, 2962
 rural residents, impact of economic opportunity loans, 1800
 southern Blue Ridge area, soil survey interpretations, 17391
 Southern Coastal Plain, forest statistics, 1938
 300th anniversary of founding, commemorative medals—
 law, 9242
 reports, 7924, 9409
 timber, 1928, 8320
 U.S. district attorney, nomination of Joseph O. Rogers, jr., hearing, 10909
 uranium reconnaissance, preliminary, 13713
 South Carolina State Commission of Forestry, lands, permit disposal, hearings, 387
 South Central States, *see* Central States.
 South China Sea, western shores, sailing directions, changes, 6125, 13263
 South Dakota :
 Agricultural Stabilization and Conservation Service, annual activity summary, 11846
 census of business, 1967—
 retail trade, area statistics, 9111
 wholesale trade, area statistics, 15109
 climatological data, 2662
 electric rate book, 1879
 Federal outlays, report of Federal Government's impact by State and county, 9573, 9622
 Federal waterfowl production areas, guide, 1435
 forests, statistics, 8319
 hydro-power plant transients, prototype measurements, 4215, 9716
 Indian vital statistics, 10317
 irrigation research needs, joint conference, Bureau of Reclamation and South Dakota State University, 8829
 mineral industry, minerals yearbook chapter, 5946
 Missouri River basin streamflow characteristics in western Dakota tributaries, 16113
 National Park Service, South Dakota Governor's book, 14711
 north-central, foraminifera and stratigraphy of upper part of Pierre Shale and lower part of Fox Hills sandstone, 14348
 postal map, 10279
 precipitation data, hourly, 2962
 water resources data, 9918-20
 South Fork Eel River :
 near Weott and Myers Flat, floods, causes, possible solutions to prevent damage, etc., 12538
 Weott to Myers Flat, flood plain information, 9691
 South Fork Forked Deer River :
 flood plain information, 4205, 12457
 floods in Henderson, Tenn., how to avoid damage, 4208
 South Fork Zumbro River, and tributaries, flood plain information, 9692
 South Korea, *see* Korea.
 South Mesquite Creek :
 flood plain information, 12478
 floods in Mesquite, Tex., how to avoid damage, 12539

South Platte division, *see* Missouri River Basin project.
 South Platte River and Valley :
 Colorado, floods of June 1965, 15816
 effects of pollution on aquatic life resources, 8261
 precipitation, probable maximum estimates, 6349
 water quality, middle basin tributary streams, 8266
 South Vietnam, *see* Vietnam.
 South West Africa, *see* South Africa.
 South West Africa (Namibia) :
 background notes, 8877
 Southeast (U.S.) :
 home fruit garden, 11869
 national parks, general information, 6082
 predicting tree d.b.h. from stump measurements in Southeast, 7015
 pulpwood prices, 1926
 suppression fires to control wildfires in Southeast, guidelines, 7018
 Southeast Asia, *see* Asia.
 Southeastern Carriers' Conference Committee, emergency board report, 8178
 Southeastern Forest Experiment Station, publications, list, 1909, 8290
 Southeastern Power Administration, appropriations, 1970, hearings, 12204
 Southeastern States, *see* Southeast (U.S.).
 Southern Anthracite field, Pennsylvania, geology of west-central part, and adjoining areas, 7054
 Southern Christian Leadership Conference, testimony, nutrition and human needs, hearings, 14058
 Southern Forest Experiment Station :
 environment for innovation, 5666
 publications, list, 3366, 5668
 Southern Pacific Co., railroad accident report, 11101
 Southern pine, *see* Pine.
 Southern pine beetle, *see* Beetles.
 Southern Railway, accident reports, 11084, 11103
 Southern red oak, *see* Oak.
 Southern region, *see* South (U.S.).
 Southern Rhodesia, *see* Rhodesia.
 Southern Utah Valley, selected hydrologic data, 14361
 Southern Utilization Research and Development Division, publications and patents, semiannual lists, 19, 10466
 Southern yellow pine, *see* Pine.
 Southern Yemen, *see* Yemen.
 Southwell, C. R., corrosion of metals in tropical environments, structural ferrous metals, 16 years' exposure to sea and fresh water, 14744
 Southwest (U.S.) :
 coniferous forests, aspen grove use by deer, elk, and cattle, 14281
 here's how, guide to tree planting, 14291
 national parks, general information, 6083
 nuclear power and water desalting plants, preliminary assessment conducted by joint United States-Mexico-International Atomic Energy Agency study team—
 executive summary, 5177
 report, 5179
 Pacific Southwest—
 land and water resources, comprehensive framework study program, 14764
 water availability seminar, criteria for type 1 comprehensive river basin study, 10453
 war on poverty, examination, case study, 10914
 Southwestern Federal Power System, financial statements for Southwestern Power System, examination, GAO report, 1943
 Southwestern Power Administration, appropriations, 1970, hearings, 12204

- Sovereignty, Czechoslovakia and Brezhnev doctrine, 9463
- Soviet bloc, Soviet bloc research in geophysics, astronomy, and space (periodical), 3146
- Soviet literature, *see* Russian literature.
- Soviet public health (USSR periodical): translations, 3448
- Soviet Union, *see* Union of Soviet Socialist Republics.
- Soviet Zone of Germany, *see* Germany.
- Sowards, G. Wesley, model for preparation of elementary school teachers, 1812
- Sows, *see* Swine.
- Soybean meal, futures trading and open contracts, 2929
- Soybean oil:
edible, publications, list, 16530
futures trading and open contracts, 2929
- Soybeans:
futures—
commitments of traders, 2680
trading and open contracts, 2929
official grain standards of United States, revised pages, 15483
U.S. soybean market in Republic of China (Taiwan), 15746
- SP series, *see* Federal Maritime Commission—Maritime Administration—National Aeronautics and Space Administration.
- Space:
planning and layout for offices, guide, 16334
time correlations and power and cross-spectra of surface fluctuating pressures, 16185
urban space problems, book, 4904
see also Outer space.
- Space Administration, *see* National Aeronautics and Space Administration.
- Space biology:
problems—
adaptation to hypoxia and resistance of organism, 13148
biological effect of radiation, etc., 16207
operational activity habitability and biotechnology problems, 11503
resources for teachers, including suggestions for classroom and laboratory experiments, 7243
- Space biology and medicine (USSR periodical):
translations, 3449
- Space cabins, *see* Spacecraft.
- Space capsules, *see* Spacecraft.
- Space communications:
carbon dioxide lasers in, USSR study, 5855
linking man and spacecraft, information transfer, 11422
radio bridge, Earth-Moon-Earth, 4759
satellite system, Relay program final report, 7245
- Space Disturbances Laboratory, ESSA technical report, ERL-SDL series, 1834-35, 4217, 5578, 6918-19, 9725, 14170
- Space environment, *see* Environment.
- Space flight, *see* Astronautics—Astronauts.
- Space Medal of Honor:
award to astronauts—
hearing, 15328
law, 16742
- Space medicine, *see* Medicine.
- Space missions:
approximation to statistics of midcourse velocity corrections, 16159
Jupiter swingby missions to nonspecific locations in interplanetary space, 11477
manned earth orbiting missions, biotechnology laboratory for study, 14580-581
- Space navigation, *see* Navigation.
- Space perception, dynamics of vestibular system and their relation to spatial disorientation, 7239
- Space photography, *see* Photography.
- Space radiators, *see* Radiators (spacecraft).
- Space sciences:
curricula for intermediate grades, concepts, 11401
significant achievements, 10097
space resources of teachers, guide outlining understandings, fundamental concepts, and activities, 17213
space science and applications, 1968, objectives and goals, 1059
- Space sensors, *see* Sensors.
- Space simulators, *see* Simulators.
- Space stations:
cable-connected, lateral cable oscillations, 7279
from spaceships to orbiting stations, USSR book, 12936
on the way to orbital stations in space, USSR, 866
orbital stations, status and future, USSR study, 17129
rotating, stabilization criteria for artificial gravity, 17221
- Space suits:
equipotential space-suit design concept and application to space-suit elbow joint, 10137
heat pipe devices for temperature control, 16127
- Space technology, space technology transfer and developing nations, 1031
see also Technology.
- Space trajectories, *see* Trajectories.
- Space tumbling, *see* Tumbling.
- Space vehicles, *see* Spacecraft.
- Spaceborne multiprocessing, study, technical description, 1005
- Spacecraft:
aerospace applications, effects of prolonged reduced pressure on growth of turnip, 3705
aerospace maintenance safety, 2557
aerospace turbulent wind field below 150M altitude at Eastern Test Range, investigation, 14582
amplitudinal fluctuations of signal reflected from flight vehicle, method for compensating, USSR study, 12935
analog-to-digital conversion system employing MOSFETS, 11457
- Apollo—
advanced, with all-flexible parawing, fixed-based visual simulation of pilot-controlled descents, 7255
Apollo—First manned lunar landing, color prints, 14593
Apollo—"In the beginning . . .", color prints, 13056
Apollo—Man on the moon, color print, 14594
chronology through Nov. 7, 1962, 13060
models, effects of bottom-structure flexibility on water landing loads, 7280
- Apollo 8, man around the moon, 4692
- Apollo launch escape vehicle—
aerodynamic characteristics determined during development, 13075
aerodynamic loads on deployed canard surfaces and rocket nose section, 13081
transonic aerodynamic characteristics of powered models, 1075
- Apollo 9 flight, code name, Spider, 8603
- Asteroid/Jupiter missions, space flight investigations, opportunities for participation, 1150
- Atlas-Centaur launch vehicle, Atlas LV-3C booster, experimental bending strength, beyond compressive skin wrinkling, 8635
- atmospheric disturbances on space vehicle design using statistical approaches for analysis, industrial aspects, 4708
- atmospheric limits on observational capabilities of aerospacecraft, 1144
- attitude control, three-axis large-angle, systems, response envelope, global description, 1113

Spacecraft—Continued

brushless dc torque-driven reaction wheel for attitude control, 13083
capsule reentry measurements, vacuum UV detector-spectroscopy systems for, evaluation, 5975
class of optimum orbit modifications, analytical solutions, 13044
communications satellite system, Relay program final report, 7245
earth oriented applications in advanced applications flight experiments, opportunities for participation, 1153
electric propulsion mission analysis, terminology and nomenclature, 17215
entry or reentry vehicles, planetary-entry-vehicle heat shields, radiofrequency transmission characteristics of candidate ablation materials, 2235
Explorer-size, test plant optimization, 13090
explorer XXXV attitude control system, 11451
flight control systems, analysis and design, 10068
flight performance of FW-4D solid-propellant rocket motor on Delta 50 (AIMP-E), 7249
from spaceships to orbiting stations USSR book, 12936
Gemini—
postflight optical evaluation of right-hand and left-hand windows, 2234
sextant sighting measurements from on board, 2251
simulation of extravehicular tasks by neutral-buoyancy techniques, 11462
graphic method for determining absolute attitude of sounding rocket vehicles, 10118
heat-transfer and pressure distribution inside hinge-line gap of wedge-flap combination, 1126
Heliogyro solar sailer, summary report, 11409
inflatable landing system having omnidirectional multiple-impact capabilities, analytical investigation, 10145
lateral vibration of characteristics of 1/40-scale dynamic model of Apollo-Saturn V launch vehicle, 1095
launch vehicles—
computing program for axial distribution of aerodynamic normal-force characteristics, errata, 1048, 14602
experimental unguided, analysis of aeroelastic divergence, 1077
longitudinal mass-spring modelling, 14620
optimal 3 dimensional launch vehicle trajectories with attitude and attitude rate constraints, 7287
peaceful exploration of space, U.S., NASA facts, 13055
simulation studies for planning in-flight experiment to define manual guidance and control techniques, 8632
life support systems and cabin habitability, study of astronaut's capabilities to maintain in weightless conditions, 16130
linking man and spacecraft, information transfer, 11422
log of Apollo 11, 13053
Lunar Orbiter—
determination of lunar equatorial radius using image-motion compensation sensor data, 11459
lunar terrain assessment and selenodesy, etc., preliminary results, 11429
mission 1 photographs, for analytical study of lunar surface shape and size, 11465
manned planetary missions, research problems in atmosphere entry and landing, 4714

Spacecraft—Continued

manufacturing occupations, employment outlook, 4568
Mars entry capsules—
configuration changes on optimum structural designs, evaluation, 14585
synthesis of optimum structural designs for conical and tension shell, 16121
materials, investigation of bremsstrahlung production, 13042
maximum range trajectories for rocket-propelled lunar flying vehicles in uniform gravitational field, analysis, 17228
method for predicting—
launch vehicle vibration levels in region of spacecraft adaptor, 4665
window-induced line-of-sight deviations, 13076
microbiological examination of space hardware, NASA standard procedures, 1045
NASA space art—Eyewitness to space, color prints, 14592
NASA space vehicle design criteria—
environment, 1044
structures, propellant slosh loads, 2214
oceanography, 1964-67, report, 13232
optimizing television systems for planetary descent missions, analytical procedure, 4748
orbiting spacecraft, analysis of operation of mass measuring system, 6005
power systems—
batteries, 5988
nuclear thermionic space concept using rod control and heat pipes, 10152
prototype lunar module landing gear, full-scale dynamic landing-impact investigation, 7251
radiometer for use in thermal studies, 1136
reentry vehicles, aerodynamic effects of bulbous bases, 14569
relationship between optical distortion and binocular depth perception, 10113
removal of acid gases and oxides of nitrogen from spacecabin atmospheres, 13049
SA-501 S-IVB auxiliary propulsion system flight anomalies, investigation, 10129
Saturn V—
launch-platform-umbilical-tower, configuration, vibration analysis of 1/40-scale dynamic model, 1094
launch-umbilical-tower, experimental vibration characteristics of 1/40-dynamic model, 1093
launch vehicle, manual backup control systems, detailed study, 14473
scientific airborne missions to investigate airglow and auroral phenomena, opportunities for participation, 1151
space vehicle design and operations, jimsphere wind profiles as related to, study, 1023
space vehicle testing, Soviet cosmonauts training, 7140
spacecraft orbiting the planets or the moon, computer program for calculating external thermal-radiation heat loads and temperatures, 6023
storage-dispenser device for food cubes aboard space vehicles, 3694
time required for adequate thermal-vacuum test of flight model, 2232
tracking, 8604
Traillblazer II vehicle, flight measurement of optical radiation from shock-heated air by using, 2242
vehicles, Federal item identification guides for supply cataloging, supplements, 2850
vibration tests, development of impedance simulation fixtures for, 10086
visual sensing of spacecraft guidance information, 2194
see also Life support systems—Satellites—Vehicles.

INDEX 1969

- Spacecraft accidents, Saturn S-IVB-503 stage accident under Apollo program, GAO review, 8336
- Spacecraft recovery, ram-air-inflated balloon recovery systems with peripheral aircoops, low-speed deployment, inflation, and steady-descent characteristics, 13073
- Spaceship crews, men of Apollo crews 7 through 11, color prints, 13057
- Spain:
 - background notes, 10408
 - economic cooperation, agreement, 14909
 - economic trends and their implications for United States, 8464
 - economy, basic data, 3900
 - loan of vessels—
 - extension, agreement, 14911
 - U.S.S. Converse and U.S.S. Kraken, agreement, 16482
 - mineral industry, minerals yearbook chapter, 2163
 - oilves, tariff concessions, agreement, 8884-85, 13478
 - selling in Spain, 7801
 - solar distillation development program, technical cooperation, 4403
 - tariff concessions, protocol and schedules, agreement, 8884-85, 13478
 - tracking station, extension, agreement, 14916
 - use of military facilities, agreement, 14910
- Spalangia Latreille, *see* Pteromalidae.
- Spallation, surface motion measurements, 5170
- Spangler, B. D., failure of floor tile systems, investigation, 14204
- Spanish-Americans, Spanish-surname farm operators in southern Texas, 9641
- Spanish Fort, Ala., motor carrier accident, 16115
- Spanish language, grammar for border patrol officers, 787
- Spanish Sahara, *see* Spanish West Africa.
- Spanish-United States Economic Committee, establish, agreement, 14909
- Spanish War Veterans, *see* United Spanish War Veterans.
- Spanish West Africa:
 - Algeria-Spanish Sahara boundary, study, 1445
 - gazetteer, official standard names, 14226
 - Spanish Sahara, capsule facts for Armed Forces, 5095
- Spare parts, *see* Repair parts.
- Spark chambers:
 - digitized, search for gamma-rays from Crab nebula, 8656
- Sparrows, house, trapping, to protect experimental grain crops, 13469
- Sparwasser, W. A., soil survey, Okmulgee County, Okla., 10383
- Spaulding, Willard M., jr., effects of surface mining on fish and wildlife resources of United States, 13462
- Spears, Joseph F., golden nematode handbook, 30
- Special current business reports (series), 3451
- Special delivery, 45-cent stamp (poster), 17322
- Special Drawing Rights, *see* International Monetary fund.
- Special publication SP series, 8755, 10238, 13266
- Special reports:
 - Air Force Cambridge Research Laboratories, 1552
 - Cold Regions Research and Engineering Laboratory, 5110, 7649, 10542
- Special Representative for Trade Negotiations, Office of:
 - appropriations, 1970—
 - hearings, 10767, 16878
 - report, 12192
 - nomination of Carl J. Gilbert, hearings, 9460, 12294
 - press releases, 3325
- Special Services Section, Army, you'll never be the same! brochure, 5132
- Special studies for incinerators for government of District of Columbia, 4899
- Specialists:
 - and generalists in Government, selection of readings, 476
 - urban, selected information sources, 17080
- Specialty prepared spots (remarks), 16675
- Specific gravity:
 - Maine conifers, survey, 686
 - pinus in southern United States, regional variation, 11186
 - saliva, 3699
 - unstimulated human parotid fluid, 15021
- Specifications, *see* Government supplies—*also* names of departments, etc., issuing specifications—*also* subjects.
- Specimen handling, microbiological specimens, collection, handling and shipment, 8801
- Spectacles:
 - characteristics of persons with corrective lenses, 10339
 - industrial, military standard, 14110
- Spectra:
 - analyses of optical atomic spectra, bibliography, 6048, 11520, 16225
 - bending moment distribution in MARINER cargo ship model in regular and irregular waves, 2446
 - carbon-13 nuclear magnetic resonance spectra of monosubstituted pyridines, 11376
 - excitation spectrum for bose gas with repulsive and attractive interactions, 1072
 - helicopter flight spectrum data, evaluation, 1589
 - horizon radiance profiles, technique to infer atmospheric temperature structure, 6015
 - infrared horizon—
 - observations, inference of stratospheric temperature and moisture profiles, 16135
 - profiles for winter conditions from Project Scanner, 2231
 - infrared spectral irradiance measurements in space environment simulator, 11449, 14604
 - late spectral type atmospheres, theoretical molecular line absorption of CO, 2222
 - microwave spectral tables, polyatomic molecules without internal rotation, 1173, 13158
 - molecular vibration spectra from field emission energy distributions, 16174
 - power and cross-spectra and space-time correlations of surface fluctuating pressures, 16185
 - Raman spectroscopy of polymeric materials, 7387
 - search for gamma-rays from Crab nebula using digitized spark chamber, 8656
 - spectral characteristics, reactivity and interaction of acids, USSR study, 836
 - spectral emission characteristics of argon-tungsten and argon-uranium induction heated plasmas, 8593
 - spectral reflectances and solar absorptances of 12 metals for temperatures ranging from 300 to 500K, 13128
 - speech intelligibility, effects of spectrum sampling on, 13667
 - staggered pulse trains or spectra, eliminating radar ambiguities by processing, 7379
 - tables of bias functions, B1 and B2, for variances based on finite samples of processes with power law spectral densities, 4765
 - see also* Wavelengths.
- Spectral analysis, prototype study, 14840
- Spectrochemical analysis, *see* Spectrochemistry.

- Spectrochemistry, spectrochemical analyses** of coal ash for trace elements, 13025
- Spectrographs, direct-current arc and alternating-current spark emission spectrographic field methods for semiquantitative analysis of geologic materials, 11234**
- Spectrography, spectrographic equipment, radiation safety recommendations, 6193**
- Spectrometers:**
- gamma, simultaneous determination of ^{59}Fe , ^{51}Cr , and ^{125}I isotopes, 89
 - low-energy photon, lithium-drifted silicon detectors, 7258
- Spectrometry:**
- homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of W-20 percent Mo alloy, etc., 4762
 - mass, residual gas analysis during vacuum melting, 14556
 - Mossbauer spectrometry for analysis of iron compounds, 11959
- Spectrometry absorption, concentration measurements and photochemistry, line emission sources, 7325**
- Spectrophotometry:**
- red-bed facies, Minas Basin, Nova Scotia, multispectral photographic studies, 1531
 - spectrophotometric procedure for determination of trace amounts of cobalt in ferrous alloys, 10266
 - spectrophotometric standards for 1962, total solar eclipse, 1536
 - see also Photometers.
- Spectroscopy:**
- general information, 5192
 - helium arc, study, 16162
 - Raman, of polymeric materials, 7387
 - vacuum UV detector-spectroscopy systems for capsule reentry measurements, evaluation, 5975
 - wettability and Mair infrared spectroscopy of solvent-cast thin films of polyimides and polypeptides, 2354
- Spectrum, see Spectra.**
- Speculation:**
- cotton, wool, potatoes, commitments of traders, 2679
 - futures trading and open contracts—cotton, wool and wool tops, 2929
 - cottonseed oil and hides, 2930
 - frozen concentrated orange juice, 6552
 - potatoes, 2930
 - wheat, corn, oats, rye, soybeans, and soybean products, 2929
 - wheat, corn, oats, soybeans, soybean oil, etc., commitments of traders, 2680
- Speech:**
- helium-speech—
 - and auditory feedback, 8573
 - intelligibility as function of speech-to-noise ratio, 7200
 - intelligibility—
 - effects of spectrum sampling on, 13667
 - stationary multipath channel, 14515
 - naval aviator's speech discrimination test, relationship to pure tone audiogram, 14498
 - reinforcement system for Senate Chamber, authorize, report, 6772
 - speech and language development program, Milwaukee, Wis., elementary program in compensatory education, 6876
- Speech recordings, see Sound recordings.**
- Speed:**
- hyperbolic speeds in air, inviscid radiating shock layers about spheres traveling at, 10157
 - hypersonic—
 - linearized theory of stagnation point heat and mass transfer, 13078
 - upwash patterns on ablating and non-ablating cones, 13121
 - maximum safe speed for motor vehicles, NHTSB staff report, 13166
- Speed—Continued**
- speed-related accident countermeasures and their priorities, 16215
 - Surveymarine, high speed hydrographic survey platform, 10222
 - traffic trends, 6218
 - use of effective speed as evaluation criterion on highways, network analysis series, 16387
 - wind speed of tropical storms from high resolution infrared data, estimating maximum, 9727
 - wind speeds, digital indicator for maximum, 12702
 - see also Air speed.
- Speirs, Nell P., nomination, hearing, 15475**
- Spencer, John D., review of Bureau of Mines coal program, 1968, 11379**
- Spendable earnings series, technical note on its calculation, 10033**
- Spera, David A.:**
- calculation of—
 - elevated-temperature cyclic life considering low-cycle fatigue and creep, 13106
 - thermal-fatigue based on accumulated creep damage, 17237
- Sperry, William C.:**
- Federal Aviation Administration aircraft noise abatement program, 12582
 - governing equations for wave propagation in homogeneous isotropic continuous fluid, 12588
- Sphenoderes, see Kinorhyncha.**
- Spheres:**
- hollow, optimum packing, in buoyancy materials, 14752
 - influence of spherical head size and specimen diameters on uniaxial compressive strength of rocks, 4652
 - microspherules in snow and ice-fog crystals, 11930
 - PuO_2 , reentry behavior, analyses and experiments, collation and experiments, 5184
 - spherical segments, etc., force-penetration characteristics of sand horizontally penetrated by, 4673
 - stagnation line, supersonic viscous gas flow, USSR study, 2085
 - submerged, film boiling, 13069
 - subsonic sphere drag measurements at intermediate Reynolds numbers, 13050
 - tabulations of configuration factors between any 2 spheres and their parts, 16151
 - traveling at hyperbolic speeds in air, inviscid radiating shock layers, 10157
 - unsteady motion of sphere along circular path in viscous fluid, 9032
- Spherical harmonics, spherical harmonic expansion of hydromagnetic equations, tables of integrals, 5577**
- Spheroids:**
- prolate, wave functions, image enhancement, 6148
 - tables of eigenvalues of wave equation in prolate spheroidal coordinates, 14743
- Spices:**
- foreign agriculture circulars, 2902
 - trade and tariff information, summaries, 10431
- Spicules, chromospheric, observations in H α and He I 3888.65 Å lines, 14858**
- Spieker, Andrew M., ground-water hydrology and geology of lower Great Miami River Valley, Ohio, 1969**
- Spiers, Emmett F.:**
- income in 1967 of persons in United States, 10604
 - supplementary report on income in 1967 of families and persons in United States, 15117
- Spikes, see Nails and spikes.**
- Spillways, Rend Lake Reservoir, Big Muddy River, Ill., hydraulic model investigation, 11017**

- Spilsbury, Calvin C., U.S. soybean market in Republic of China (Taiwan), 15746
- Spin (aircraft):
flat-spin characteristics of twin-jet, swept-wing fighter airplane, analysis, 16166
supersonic jet aircraft stall and spin, critical regimes, 13144
- Spin (atomic):
spin-dependent S-wave statistics, analysis of gold sphere transmission experiments, etc., 8651
- Spin waves, quantum spin waves, 16610
- Spinacopia, *see* Crustaceans.
- Spinal cord:
Clinical Spinal Cord Injury Conference, proceedings, 6335
dorsal column system, anatomy, physiology, phylogeny and sensory function, updated review, 16253
Spinal nerves, *see* Nerves.
- Spinels, spinel lithium ferrite, magnetic and crystallographic properties, effects of lithium and oxygen losses, 7307
- Spinner, Lawrence N., advanced scanning beam guidance system for all weather landing, 7539
- Spinner, S., some problems in measuring tread wear of tires, 13160
- Spinning, John N.:
hydra survey system development, test and evaluation, 10217
surveymarine, high speed hydrographic survey platform, 10222
- Spinning, performance and yarn quality as affected by lint color and trash in field-exposed cotton, 1966-67 crop year, 13594
- Spiral generation of building shells for military construction, 6905
- Spirit Lake, Gifford Pinchot National Forest, general information, 14271
- Spisz, Ernie W., solar absorptances and spectral reflectances of 12 metals for temperatures ranging from 300 to 500 K, 1312
- Spittlebugs, meadow spittlebug on legumes, control, 5048
- Splices, *see* Connectors (electric).
- Spollers (aircraft):
correlation of fluctuating forces with sound radiation from rigid flow spollers, 10082
- Spokane, Wash.:
area wage survey, 16020
clay deposits, 3702
- Spongle, Charles E., summaries, solid wastes demonstration grant projects, 1968, for grants awarded during June 1, 1966-Dec. 31, 1967, period, 4901
- Sponsors, tax information for sponsors of contests and sporting events, 5778
- Spoonful of science (remarks), 10576
- Spoons, trade and tariff information, summaries, 1464
- Sporadic E, *see* Ionosphere.
- Spores, content of the air, determination with stationary probes, USSR study, 12890
- Sporobolus, *see* Grasses.
- Sport fisheries, *see* Fish and fisheries.
- Sport Fisheries and Wildlife Bureau:
accident control, report, annual, 16441
appropriations, 1970—
hearings, 7946
reports, 12171, 15398, 16793
circular, 16442
FRL series, 10385-391
national survey of needs for hatchery fish, cooperative project, 7471, 11690
press releases, 3326
programs, 6257
publications, list, 3347
refuge leaflets, 1413-25, 2468-78, 4946-47, 6249-54, 7469, 8870-71, 10396-397, 11688-689, 13452-460, 16443-455, 17394
regulatory announcements, 1426, 13461, 14884
- Sport Fisheries and Wildlife Bureau—Con.
resource publications (series), 1427-29, 2480, 6255, 7470-72, 10398-399, 11690, 13462-465, 14885, 16456, 17395-396
research reports, 2479
special scientific reports, wildlife series, 6256, 7473-74, 13466, 14887, 16457-458
technical papers, 6258, 7475, 10400-401, 13467, 17397
wildlife research, problems, programs, progress, 13464
- Sporting goods, Federal item identification guides for supply cataloging, supplements, 2849
- Sports:
tax information for sponsors of contests and sporting events, 5778
winter-sports sites, pilot test of sampling procedures for estimating recreation use, 1936
- Sprague, John W., method of measuring costs and benefits of applied research, 11378
- Sprague, Vance G. Jr., oceanographic cruise summary, eastern Gulf of Maine and continental margin, 13223
- Sprays and spraying, tip-moth control, not practical for southern pines, 1931
see also Pesticides.
- Spring, H. Charles, summary of manufacturing production workers earnings series, 11335
- Spring Creek, flood plain information, 12459
- Springer, Edward L., control of pulp chip deterioration with kraft green liquor, 16764
- Springfield, H. W., age and year of collection affect germination of winterfat seeds, 1920
- Springfield, Idaho, records of observation wells and water-level fluctuations, 8357, 14355
- Springfield, Mass., Interstate Air Quality Control Region, report for consultation, 8813
- Springfield, Mo.:
flood plain information, 9700
floods, how to avoid damage, 12516
- Springs:
discharges, 1966-67 water resources data for Nevada, 8378
water resources of windward Oahu, Hawaii, 7064
- Sprinkler irrigation, *see* Irrigation.
- Sprinklers, pipe trailer, farm building plan, 3661
- Sprouse, Sylvia P., mineral trade notes, monthly inventory, 3124
- Spruce:
fir timber, response of deer to alternate-strip clearcutting in Colorado, 14284
sitka, in southeast Alaska, volume tables and equations, 8293
spruce budworm tolerance to malathion, 4321
white—
Alaska, regeneration, literature review, 15775
thinned white spruce plantation, 15 year growth, 11176
white and Norway spruce trees from several seed sources 29 years after planting, development, 11174
Spruce budworms, *see* Budworms.
- Spur gears, *see* Gears.
- Spur Mountain Lake, southeastern Alaska, geologic reconnaissance of possible power sites, 5697
- Spurlock, Lucile B., effective revenue writing, 17100
- Squash growing, 10480
- Squaw Creek, flood profile study, 8343
- Squaw Creek National Wildlife Refuge, mammals, list, 1420
- Squawfish, northern, electrical installation for control, 7817

- Squids, systematics and zoogeography of worldwide bathypelagic squid *Bathytenthis* (Cephalopoda: Oegopsida), 13181
- Squillace, A. E., assessing potential oleresia yields of slash pine progenies at juvenile ages, 7012
- Squirrel monkey, *see* Monkeys.
- SRDS, *see* Systems Research and Development Service.
- SRS series, 2507, 10428
- SSC, *see* Ship Structure Committee.
- SSI series, 1399-1404, 4941, 6237-38, 7460-64, 8860-61, 10374-380, 13440, 16420-421, 17384
- SST (supersonic transport), *see* Aircraft.
- Stability:
- acoustic-mode instability in hydrogen oxygen rocket, effect of injection element radial distribution and chamber geometry, 14623
 - centrifugally stabilized disk and shell structures, some equilibrium and free vibration problems associated with, 2185, 4660
 - gasoline storage, 2170
 - hydrodynamic stability of inviscid rotating coaxial jets, 8602
 - laminar flux of dense plasma, hydrodynamic theory, 16615
 - liquid rocket acoustic-mode-instability studies at nominal thrust of 20,000 pounds, interim summary, 2262
 - mechanisms with elastic couplings, 14650
 - regions of constrained stability for nonlinear control systems, computation, 11408
 - slopes and embankment foundations, electronic computer program, 16382
 - solid-propellant combustion instability and role of velocity coupling, 14639
 - stability and equilibrium of high current self-compressed discharge in optically dense plasma with radiative thermal conductivity, theory, 15062
 - stability indicative function, for linear systems with multiple delays, determination, 6024
 - stability of—
 - Edwards personal preference schedule, need scale scores and profiles over 7-week interval, 14495
 - Inhomogeneous hot plasma flow, 15065
 - nonuniform electron beams and problem of current limits in accelerators, 15067
 - tests of water lubricated herringbone-groove journal bearings, experiments on theoretical considerations and clearance effects, 1103
 - theory of nonlinear operational differential equations in Hilbert spaces, 10089
 - thermal stability of—
 - disulfides, diselenides and ditellurides of tungsten in vacuum, 10110
 - ethylene dinitrilotetraacetic acid and its salts, rate of decomposition in aqueous solution determined by NMR techniques, 1267A
 - polymers, dependence on chemical structure, USSR study, 5815
 - thin liquid film adjacent to high-speed gas stream analysis, 4713
 - water lubricated herringbone-groove journal bearings, experiments, 11475
- Stability of aircraft:
- aceroelastic, helicopter rotor in forward flight, method for analyzing, 14568
 - airplane model with double-delta wing, including longitudinal and lateral characteristics and ground effects, large-scale tests, 7276
 - applicability of Southwell plot to interpretation of test data from instability studies of shell bodies, 13674
 - blade-motion stability boundaries for articulated rotor, parametric study, 6002
- Stability of aircraft—Continued
- computing span loads and stability derivatives for wings in subsonic compressible flow, theory, 2239
 - direct side-force maneuvering system on deflected jet VTOL aircraft, investigation, 8638
 - dynamic, quad configuration, ducted-propeller V/STOL model—
 - characteristics, 181
 - hovering, 1584
 - lateral/directional dynamics at high duct incidences, 3782
 - fluidic vortex valve servomotor development, 15056
 - large-scale wind-tunnel investigation to improve low-speed longitudinal stability at high lift of supersonic transport with variable-sweep wings, 4733
 - lateral-directional stability characteristics of twin-jet fighter airplane at high angles of attack, analysis, 14616
 - mechanical stability augmentation system for helicopters, reliability evaluation, 11956
 - rotor instability at high forward speeds, prediction, 7668-70
 - static and dynamic stability derivatives of jet transport model equipped with external-flow jet-augmented flaps, 14646
 - static longitudinal and lateral characteristics of a light twin-engine airplane, full-scale wind tunnel investigation, 4716
 - V/STOL, ducted-propeller model at high duct incidence, quad configuration, longitudinal stability characteristics, 13669
- Stability of spacecraft:
- attitude stability of class of partially flexible spinning satellites, 14606
 - axisymmetric and cylindrical isostabiloids, 17206
 - electrothermal instabilities, effect on Brayton- and Rankine cycle magnetohydrodynamic space-power generation systems, 16195
 - on phenomenon of thermoelastic instability (thermal flutter) of booms with open cross sections, 11456
 - stabilization criteria for artificial gravity in rotating space station, 17221
- Stabilization:
- criteria for artificial gravity in rotating space station, 17221
 - effect of viscous and friction damping on vibration of shaft face seals, 8637
 - stabilization policy and employment (paper), 4282
- Stabilizers (airplanes), *see* Airplanes.
- Staff development, *see* Administrative management.
- Staff training:
- Lead Staff staff, tips on parent involvement, workbook, 9638
 - organization and functions of field staff
 - New Florence, case study for 1970 censuses of population and housing, 7750
- Staffanson, Forrest L.:
- entry length for rocket meteorological radiation shield, 1019
 - theoretical comparison of beads, wires and films as rocketsonde temperature sensors in mesosphere, 4688
- Stafford, George M., remarks, Apr. 30, 1968, 4430
- Stage measurement at gaging stations, 1971
- Stagnation point:
- blunt-body stagnation-region flow with nongray radiation heat transfer, singular perturbation solution, 1148
 - boundary layer with suction and injection in equilibrium dissociating air, corrected copy, 2217
 - empirical, heat-transfer relation in several gas mixtures at high enthalpy levels, 1058

- Stagnation point—Continued
 experimental velocity gradients for family of blunt bodies at Mach 8 and angles of attack, 11444
 heat and mass transfer at hypersonic speeds, linearized theory, 13078
 photographic study of bromine jet flowing in coaxial airstream and impinging on stagnation surface, 8650
- Stagner, Ross, psychological dynamics of inner-city problems, 884
- Stalnback, P. Calvin, effect of unit Reynolds number, nose bluntness, angle of attack, and roughness on transition on 5° half-angle cone at Mach 8, 2259
- Stainless steel:
 AM 350 sheet and Ti-8Al-1Mo-IV titanium alloy, effect of outdoor exposure at elevated temperature on fatigue life, 13133
 counterflow double-containment tantalum-stainless steel mercury boiler, design and fabrication, 8617
 double-containment tantalum-and-stainless-steel mercury boiler for SNAP-8, design-point performance, 1137
 thin AISI 301 60-percent cold-reduced sheet at various angles to rolling direction, cryogenic fracture properties, 16168
- Stains and staining, mortar and concrete, investigation of methods for removing stains, 1824
- Stall (aircraft):
 stall flutter, prediction of rotor instability at high forward speeds, 9053
 supersonic jet aircraft stall and spin, critical regimes, 13144
 thin airfoils oscillating near stall, wind tunnel tests, 6459-60
- Stall barns, *see* Barns.
- Stallings, Robert L., Jr.:
 experimental pressure distributions—
 family of blunt bodies at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15°, 14637
 120° cone at Mach numbers from 2.96 to 4.63 and angles of attack from 0° to 20°, 7257
- Stam, Jerome M., selected economic trends in agricultural sector, Northern Lake States, 1949-64, 9639
- Stamm, G. L., operating characteristics of xenon and xenon-mercury, short-arc lamp immersed in water, 11567
- Stamper, John W., titanium, 988
- Stamps, *see* Food stamps—Migratory-bird-hunting stamps—Trading stamps.
- Stamps that make the difference (address), 3669
- Stamulis, A., CO₂ pulse technique for determining residual gas life of charcoal beds, 1282
- Standard method for 1-inch dynamic tear test, 16314
- Standard plans for highway bridges, 1362, 11648
- Standard reference data system, *see* National standard reference data system.
- Standard time, *see* Time.
- Standing Rock Reservation, lands, hold in trust, reports, 13998, 16781
- Standing Rock Sioux Tribe, North Dakota, *see* Sioux Indians.
- Standards and standardization:
 criteria for choosing research scientists, USSR study, 835
 Defense Department—
 cataloging and standardization program, semiannual reports, 391A, 5368, 13919
 specifications and standards, index, 2971, 14096-97
 standardization documents, supply classification listing, 2881, 14094
 standardization policies, procedures, etc., manual, 3456
- Standards and standardization—Continued
 Federal general data standard, representations and codes
 calendar date identification, 6042
 counties of States of United States, 6044
 metropolitan statistical areas, 11514
 States of United States, 6043
 Federal information processing standards publications—
 FIPS pubs, 2283, 6039-44, 7320, 11514
 information interchange—
 and related media standards, implementation of code, 7320
 code, 6039
 perforated tape code, 6040
 recorded magnetic tape, 6041
 register, general information, 2283
 Federal specifications and standards, index, 2969, 8260
 Federal standards, 659, 4284-85, 5617-18, 6980-82, 8255-57, 9828-30, 11139-142, 14236-237, 15736
 guide, 14325
 policy program (address), 13805
 Federal test method standards, 5650, 6983, 8259, 11143, 12651-652, 17004
 format standards for scientific and technical reports prepared by or for Federal government, guidelines, 1861
 gravity measurements and standards laboratory, 14675
 hardware standard, interchange codes and media, information interchange—
 code, 6039
 implementation of code, 7320
 perforated tape code, 6040
 recorded magnetic tape, 6041
 housing code standards, studies, 11599
 industrial standards, voluntary program, effect upon small business, report, 1696
 job grading standard, civil service, engineering equipment operator, 7778
 military standards, 540-551, 1787-92, 4132-37, 5497-5509, 6838-44, 8133-39, 9522-27, 10952-956, 12362-371, 14099-112, 15527-530, 16923-930
 MILSCAP, military standard contract administration procedures, 4138-39, 10957, 16932
 DoD data system, over-view, etc., 552
 National Bureau of Standards—
 standard reference data system, appropriations, 1970 and 1971, authorizing, reports, 10712, 10735
 standard reference materials, catalog and price list, 17264
 national standard reference data system—
 appropriations, 1970-71, authorization, hearings, 9369
 questions and answers, 11518
 product standard PS (series), 14668-669
 standard reference materials—
 homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of W-20 percent Mo alloy fabricated by powder metallurgical methods, 4762
 news for users of, 3199
 standardization of pharmacy items and consolidation of bulk compounding facilities, opportunities for better service and economies, GAO report, 11218
 standards for granting Federal charters to nonprofit corporations, 15469
 standards laboratories, conference proceedings, 8669
 technical standards training guides, 15709
see also subjects.
- Standards of medical fitness, 5107
- Standards of Official Conduct Committee, House, investigations and studies, expenses, report, 6676
- Stands, design difficulties in stand density studies, 11179
- Stankiewicz, N., ellipsoidal velocity, distribution function, 5998

- Stanley, Caroline, reference tools, 16962
- Stanley, Daniel J.:
Atlantic Continental Shelf and slope of United States, color of marine sediments, 5716
photographic investigation of sediment texture, bottom current activity, and benthonic organisms in Wilmington submarine canyon, 9198
- Stanley, Gertrude L., medical care utilization by disabled, 6231
- Stanley, Joan H., Old Stone House in Georgetown, D.C., its 18th century occupants and furnishings, 8732
- Stanley, John H., Judiciary Square, Washington, D.C., park history, 8726
- Stanley, Kirk W., effects of Alaska earthquake of Mar. 27, 1964 on shore processes and beach morphology, effects of tectonic uplift and subsidence along 10,000 miles of shoreline, and practical meaning of those effects, 1967
- Stanley, William D., pulse-response curves of conventional low-pass filters, 17241
- Stannett, V. T., radiation-induced polymerization and copolymerization of unusual monomers, 13717
- Stannous fluoride:
clinical evaluation, when used as constituent of prophylactic paste, topical solution, and dentifrice in Naval personnel, report after 2 years, 13003
laboratory testing of silver amalgam restorative materials, with, 10529
mouthwash study, 3697
oral prophylaxis pellet, stable preparation, 16570
self-preparation stannous fluoride prophylactic technique in preventive dentistry, report, 14516
treatment, patient acceptance, 16063
- Stannous hexafluoroantimonate, use in reduction of enamel solubility, 15017
- Stans, Maurice H.:
addresses, etc.—
Mar. 21, 1969, 6545
Mar. 22, 1969, 6538
Mar. 24, 1969, 6546
Apr. 14, 1969, 7793
May 3, 1969, 7794
May 9, 1969, 7805
May 21, 1969, 9213
June 7, 1969, 10638, 10661
June 9, 1969, 10640
June 10, 1969, 10639
July 9, 1969, 10660
Sept. 10, 1969, 12808
Sept. 10, 1969, 15173
Sept. 17, 1969, 15174
Sept. 19, 1969, 15160
Oct. 1, 1969, 15159
Oct. 2, 1969, 15161
Oct. 7, 1969, 16699
Oct. 18, 1969, 16700
Oct. 28, 1969, 16701
nomination, hearing, 5435
- Stanton, Beryle, news for farmer cooperatives, 3198
- Stanton, Mearl F., Journal of National Cancer Institute, 3022
- STAP (special technical assistance program), see Technical assistance.
- Stapelford, Robert L., experiments and a model for pilot dynamics with visual and motion in-puts, 10076
- Staphylococcus, pathogenic properties of Staphylococcus aureus as influenced by culture conditions, 9010
- Stapelford, Robert L., measurement of pilot describing functions in single-controller multiloop tasks, 4669
- Staples, J. Clay, paper, June 17, 1969, 13645
- Staples and stapling machines, staples, Federal item identification guide, change, 15510
- Stapleton, R. E., magnetic and electrical materials capable of operating in 800° to 1600° F temperature range, 2193
- STAR, see Scientific and technical aerospace reports.
- Star Peak Group, Triassic, Humboldt Range, Nev., stratigraphy, 7053
- Star-Spangled Banner, writing and history of America's national anthem, 14704
- Star trackers, boresighted, multipurpose, design and development, 7225
- Starbird, I. R., costs of producing upland cotton in United States, supplement, 14123
- Stars:
electronically scanned star sensor with digital output, design, 11483
how far a star, space oriented concepts for science and mathematics curricula for intermediate grades, supplement, 11401
photoelectric catalogue, magnitudes and colors of stars in U.B.V. and Ue.B.V. systems, 8743
region of lacerta OB1, statistics, 11441
two-micron sky survey, preliminary catalogue, 16150
- Wolf-Rayet stars, symposium proceedings, 2287
- see also Cosmic rays—Star trackers.
- Starsinic, Donald E., estimates of population of counties and metropolitan areas, July 1, 1966, summary report, 12015
- Starting and managing series, 17370
- Stassinopoulos, E. G., parametric angles of trajectory-determined field line intersects predicting location of artificial auroras, 13074
- State, Albert R., NETVSL, computer program for calculation of tree volumes with interior defect, 4323
- State aid, see Grants-in-aid.
- State and local government employment and payrolls, 3457
- State banks:
equity security transactions and ownership of directors, etc., of Federal reserve member State banks, monthly summary, 3482
member banks of Federal reserve system, list, supplement, 3458
membership in Federal reserve system—regulations, amend., 8249
weekly changes, 2654
- State boards and departments of education, see Educational boards and departments.
- State bonds:
tax treatment, tax reform hearings—press releases announcing tentative decisions, 13945
State and local bond interest, summary of testimony, 15347
State and municipal bonds, etc., summary of problems, 7989
written statements of witnesses, 7985
- State Department:
acquisition and management of nonexpendable personal property overseas, improvements made or to be made, GAO report, 5688
advisers to military training institutions, analysis and assessments, 10904
appropriations, 1970—
hearings, 10767, 16878
report, 12192
- Assistant Secretary for Administration, nomination of Francis G. Meyer, hearing, 15454
- background notes, 1436, 2481-84, 2618, 4948-61, 6260-71, 7476-81, 8872-78, 10404-409, 11691-11700, 14890-903, 16459-461, 17398-402
- biographic register, 13470
- bulletin, 2760
- Center for Cultural and Technical Interchange between East and West, activities, GAO report, 9872
- centrex telephone directory, 16462

INDEX 1969

State Department—Continued
 department and foreign service series, 1437, 2185, 8879, 11702, 13470-471
 diplomatic and consular instructions, 1791-1801, microcopy, pamphlet to accompany, 14655
 efforts to collect international postal debts and to pay postal amounts owed in excess foreign currencies, GAO report, 12741
 Film Library discussion guides, 1438
 foreign aid provided through operations of United States Sugar act and international coffee agreement, GAO report, 17065
 general information, 11702
 Government owned and leased real property overseas, improvements needed in management, GAO report, 15782
 indexes, living costs abroad, 5913
 international information and cultural series, 11707
 living quarters allowances, 14480
 messengers, clerks, assignment, Washington, D.C., 4968
 news letter, 2761
 planning-programming-budgeting system and foreign affairs, reflections, memorandum, 473
 press releases, 3327
 publications—
 and audio-visual materials, selected list, 3428
 pocket guide to foreign policy information materials and services, 10417
 records, microcopy, pamphlet to accompany—
 internal affairs of—
 Argentina, 1161
 Asia, 13154
 Austria-Hungary and Austria, 1164, 2278
 British Asia, 1910-29, 6032
 Italy, 2274
 Peru, 13155
 Siam, 6033
 Turkey, 13151
 political relations with—
 Asia, and between Asia and other States, 11511
 Austria and Hungary, 2279
 Austria-Hungary and Austria, 10169
 Brazil, 7317
 Central America and between Central America and other States, 13153
 Costa Rica and other States, 2276
 El Salvador, 7318
 Italy, 10168
 Liberia and other States, 13152
 Persia, 14661
 Siam, 10170
 reorganization, hearings, index, 1739
 State-Defense Officer Exchange Program, analysis and assessment, committee print, 6788
 telephone directory, 6274
 Under Secretary, nomination of Elliot L. Richardson, hearing, 4079
 Under Secretary for Administration, nomination of William B. Macomber, jr., hearing, 15454
 Under Secretary for Political Affairs, nomination of U. Alexis Johnson, hearings, 4081
 United States—
 construction activities in Thailand, 1966-67, GAO report, 1952
 financial participation in United Nations Children's Fund, GAO report, 11229
 participation in World Health Organization, GAO report, 1953
 State governments, *see* Government.
 State of the Union, *see* United States.
 State postal map series, 6160-62, 7401-2, 8774, 16332, 17323-326

State programs, cost estimates, report, 417
 State Technical Assistance Agencies, war on poverty, examination, case studies, 4092
 State Technical Services Office:
 annual report, 3892
 newsletter, 3459
 press releases, 3312
 Statements, *see* Addresses, lectures, etc.
 Staten Island, group volunteer service, project report, 7566
 States:
 actions to recover delinquent State taxes in District of Columbia on reciprocal basis, authorize, report, 14009
 agencies for surplus property, directory, 11256
 agricultural experiment stations, research facilities, administrative manual, 10478
 air quality data from national air surveillance networks, 4871
 airport system planning, guide, 5090
 ambulance services, operation of emergency vehicles and Good Samaritan laws, compendium of State statutes on regulation, 13341
 brucellosis eradication activities, 11
 climates, 14159-162
 congressional districts, 91st Congress, atlas, 1618
 control, regulation, and management of fish and wildlife on Federal lands, by States, hearings, 16881
 cooperative State-Federal research in agriculture and forestry, 14989
 counties, Federal general data standard representations and codes, 6044
 departments of education, 1970-71 foreign curriculum consultant program, 14135
 doctor's degrees conferred by U.S. institutions 1957-58 through 1966-67, 12426
 education departments, state of, report, 12439
 equal pay, legislation, what you want in bill, 8940
 FDA commission, delegation of authority to State and local officials, 11149
 Federal aid payments, reporting, 10438
 Federal civilian employment, by geographic area, annual report, 5267
 Federal funds, 1969, State allotments for funded programs, 10979
 Federal general data standard, representations and codes, 6043
 Federal grants—
 highway safety act of 1966, programs, cost estimates, report, 417
 joint funding simplification, hearing, 16819
 nursing homes, etc., for veterans, increase Federal payments, reports, 9318, 16867
 programs, study of major characteristics, 15456
 public health services, 1336
 Federal revenue sharing, message from the President, 13863
 Federal-State-industry cooperative, Savannah River water quality studies, report, 14804
 federally supported technical assistance for community development, report, handbook, 17081
 FHA homes, insuring operations under sec. 203, 1967 data, 5607
 finances, reports on State and local government, 1616
 flowers and foliage plants, production and sales, 1956-68, 10500
 forest fire control, cooperative program financing, 15751
 governments—
 construction expenditures, 5228-29
 Federal disaster assistance by Emergency Preparedness Office, GAO report, 12744

States—Continued

governments continued

Federal Government should grant annually specific percentage of its income tax to State governments, national debate topic for high schools, 1969-70, selected excerpts, etc., 15224

finances, 10609

governmental fiscal years in 1967, 16670

grants for public health services, 2423

health authorities, 1968 directory, 4876

health insurance for aged, amounts reimbursed, July 1966-Dec. 1967, 11665

help for children and families, 15122

highway condemnation law and litigation, statistical summary by States of cases reported, 1946-61, lists, 1360

highway safety programs, problems arising from Federal grants, GAO report, 11221

interstate taxation act, reports, 10710, 10726

labor laws—

- enacted in 1968, review, 16011
- weightlifting provisions concerning employed women, 13536

labor legislation, annual digest, 4468

land-grant colleges and universities, Extension Service review (periodical), 2811

laws—

- enacted in 1968 of interest to Housing and Urban Development Department, 14397
- veterans rights, benefits, etc., digests, 5383

legislative program of Advisory Commission on Intergovernmental Relations, 10456

legislatures, apportionment, 8943

management of fish and resident wildlife on Federal lands, hearings, 461, 5432

manpower projections, development for tomorrow's needs, 7173-74, 19015-16

medicare, amounts reimbursed by States, 2453

mental hospitals, patients, 1967 list, 14796

merit systems—

- directory, 758
- extend to additional programs financed by Federal funds, hearings, 8070

mining laws, comparison, 12213

minimum wage laws to help all workers especially working poor, 11781

national highway safety standards—

- outstanding examples of specific projects, descriptions, etc., 4772, 11534
- projects initiated and conducted, résumé, 4773

national survey of needs for hatchery fish, cooperative project, 7471, 11690

outpatient psychiatric clinics, annual statistical report, 2422

payments to local governments, 219

population—

- by age, estimates, 7744
- households, estimates, 9158

postal maps, 6160-62, 7401-2, 8774, 10278-279, 11594-596, 16332, 17323-326

private and public ownership of lands, differentiation, Federal reclamation laws, acreage limitation amendments—

- hearing, 14039
- report, 16876

professional workers in agricultural experiment stations and other cooperating institutions, list, 6371

public assistance—

- costs, State and local administration, services and training, 7335
- medical assistance, and child welfare services plans under social security act, staff development provisions, 10364
- plans under social security act, characteristics, general provisions, eligibility, assistance, administration, 13434

States—Continued

public school finance programs, 6897

public works and economic development act of 1965, maximum grant rates in qualified areas, 5517

publications, monthly checklist, 3133

regular income limits for public housing, list, 17084

salary ranges of positions in employment security, etc., 762, 1980, 11259

school systems, 1965-66, statistics, 5555

social services for children and families, 6510

soil and water conservation districts, status of organization, etc., 1406, 14872

solid waste planning grants and agencies, 7428-29

sources of milk for Federal order markets, 505

State and local finances, significant features, 5013

State and local government special studies, 6507, 9165, 12019, 16670

State and local taxes, national banks, clarify liability, hearing, 9339

State Commissions on status of women conference (remarks), 8538

State maximums and other methods of limiting money payments to recipients of special types of public assistance, 10183

State planning agency grants under Omnibus crime control and safe streets act, guide, 5877

State policy planning for economic development uses of input-output analysis, paper, 12396

State safety code comparison studies, 7169

State taxation of national banks, provide uniform rule reports, 10718, 12165

State technical services, helping business and industry through science and technology, 6544

State trees, list, 12719

States and local government—

- equal employment opportunity, for all the people, by all the people, report, 12036
- financing industrial development, 565

States and regions, Federal revenue and expenditure estimates, 1965-67 fiscal years, subcommittee, analytical review, 1701

Task Force on Prescription Drugs, background notes, current drug programs, 1981

tax collections, 1968 report, 1623

tax revenue, quarterly summary, 5230, 15120

technical services, designated agencies, officials and working contacts, list, 3078

toll facilities, 4906

travel information offices in U.S.A., list, 14957

unemployment insurance laws—

- and experience, 17430
- comparison, revised series, 5564, 12144

vocational rehabilitation agencies, case-load statistics, 2439

vocational-technical education program development for persons with special needs under Vocational education act of 1963, progress report, 6895

water resources planning act of 1965, river basin commissions established, report, 5332

we the black people of United States general information, 7755

workmen's compensation laws, mining industry employees' coverage and benefits, encourage improvement, 15311

X-ray programs, past, present, and future, symposium, 11611

INDEX 1969

- States--Continued
 - youth camp laws and regulations, safety survey by HEW, provide--
 - hearing, 12216
 - report, 9320
- State:
 - and fatigue test properties for woven and nonwoven S-glass fibers, 11953
 - equilibrium configuration of cable arrays by use of method of imaginary reactions, 10257
 - hypersonic flutter analysis using measured static aerodynamic derivatives, and comparison with experiment, 10144
- Static electricity, *see* Electrostatics.
- Static inverters, *see* Inverters.
- Static stability, *see* Stability of aircraft.
- Stationary engineers, employment outlook, 4555
- Stationary firemen, employment outlook, 4555
- Statistical abstract of United States:
 - departmental edition, 13774
 - document edition, 13856
- Statistical processes:
 - statistical application--
 - response surface fitting in predicting lignite properties, 5959
 - techniques to study of eddy structure, 1604
 - statistical concepts and procedures, precision measurement and calibration, 6046
- Statistical publications, *see* names of departments, etc., issuing publications.
- Statistical Reporting Service:
 - agricultural economics reports, checklist, 2655
 - appropriations, 1970--
 - hearings, 7945
 - reports, 9311, 12254
 - periodic reports, list, 3667
 - SRS series, 2507, 10428
- Statisticians:
 - employment outlook, 4521
 - statisticians of other countries, 1969-70 labor and price statistics training program, 8551
- Statistics:
 - community mental health centers, statistical information system, 10320
 - Conference on Small Area Statistics, American Statistical Association, papers presented, 5208
 - Federal statistical programs, review, hearings, 12132
 - metropolitan area, 13773
 - programs for computing multiple correlations and related statistics, 16059
 - statistical briefs from around the world (periodical), 3461
 - statistical exposition of guide manual for reliability measurement program, 1272
 - statistical information, computer processing, some problems, USSR study, 7150
 - statistical reporter (periodical), 3463
 - statistical series releases, SEC, 3464
 - statistical system of certain countries in Europe, 16799
 - statistics for dynamic Federal system (address), 317
 - see also* Regression (statistics)--Sampling (statistics)--Time series--Vital statistics--*also* subjects.
- Stators, highly loaded turbine stator blading in annular cascade sector, experimental investigation, 2198, 8598, 10075, 16137
- Statue of Liberty National Monument, Ellis Island ferryboat, transport to hope, 13186
- Statues, *see* names of persons in whose honor statues are erected.
- Status of forces agreements, *see* Criminal jurisdiction.
- Status of safety standards, 888
- Status of U.S. strategic power, 1733
- Statutes, State, compendium on regulation of ambulance services, operation of emergency vehicles, and Good Samaritan laws, 13341
- see also* Law.
- Statutes at large, 90th Cong., 1st session, laws and concurrent resolutions, reorganization plans, 25th amendment to Constitution, and proclamations, 5638
- Statutes of limitations, *see* Limitations (law).
- Steady state, *see* Equilibrium.
- Steam:
 - concentration, influence on coal-steam gasification reactions, 13027
 - reaction of coal with steam at high pressures, 2176
 - steam coals, pyrite size distribution and coal-pyrite particle association, 4650
- Steam-electric plants, *see* Electric power plants.
- Steam generators, steam generating equipment, corrosion products of iron and their relation to corrosion, 13293
- Steam power plants:
 - equipment, Federal item identification guides for supply cataloging, supplements, 2845
 - fish and fishing around TVA steam plants, 14942
 - site selection, considerations affecting, 2442
 - TVA, visitors are welcome, 2517
- Steamship conferences, *see* Shipping conferences.
- Steamships:
 - lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 2599, 15710
 - steamers, barges, etc., operating on Savannah River during 19th century, 14153
 - United States and Canadian Great Lakes fleets, 11368
 - see also* names of steamships.
- Stearic acid, carbon-14-labeled, adsorption on soda-lime glass, 13301
- Stearns, Carl A., dissociation energy of gaseous titanium mononitride, 5999
- Stearns, Forest W., deer browse production, rapid sampling and computer-aided analysis, 4312
- Stearns, Ronald T., preshot geophysical properties of Palanquin crater site, 3805
- Stecura, Stephan:
 - solubilities of--
 - molybdenum and tungsten in liquid potassium, 17248
 - vanadium, titanium, and zirconium in liquid potassium, 7270
- Steel:
 - and iron, industry wage survey, 2111
 - A533 pressure vessel, with neutron irradiation, initial assessments of notch ductility behavior, 6145
 - ausformed M-50 steel balls, rolling-element fatigue life, 2253
 - beam, unloading, construction industry safe work guide, 17147
 - constructional steels, welding procedures for, military standard, 546
 - dynamic tear test of temperature transition from linear elastic to gross strain fracture conditions, 6147
 - flame straightening and its effect on base metal properties, 14854
 - 5Ni-Cr-Mo-V, fracture toughness characterization by Charpy V-notch and dynamic tear tests, 13292
 - forgings--
 - commercial, 1968, current industrial reports, 9126
 - current industrial reports, 226
 - foundries, industry wage survey, 14457

Steel—Continued
high strength—

- fatigue crack propagation under constant cyclic load with variable mean loads, 6151
 - low-alloy steel weldments for cargo ship hulls, study of factors which affect adequacy, 16400
 - structural, corrosion-fatigue crack propagation studies, 13291
 - imports, expansion, problems caused in domestic industry, study, print as Senate document, report, 444
 - industry, employment outlook, 4582
 - ingot producers, current industrial reports, 6497
 - iron and steel scrap, use in extraction of copper from oxides, principles and application to pure systems, 16101
 - maraging—
 - 18-percent nickel, metallurgy, behavior, and application, 4697
 - welds in range from 150- to 200-ksi yield strength, fracture toughness characteristics, ratio analysis diagram interpretations, 11570
 - mild—
 - hydrogen evolution during aqueous oxidation, study, 14750
 - porosity of protective films, 7386
 - minerals yearbook chapter, 942
 - 9Ni-4Co-0.25C steel, subcritical flaw growth, fatigue and fractographic growth, etc., 13277
 - notch brittleness after prestraining, 4922
 - notched and welded plates, effect of repeated loads on low temperature fracture behavior of, 1376
 - 180-ksi yield strength steels in air and salt water environments, fatigue crack growth studies, 2355
 - piling in seawater, corrosion and protection of, 14149
 - plastic flow in locale on notches and cracks in Fe-3Si steel under conditions approaching plane strain, 2447
 - pressure vessel steels and weldments, effect of residual elements on 550° F irradiation response, 6150
 - scrap—
 - minerals yearbook chapter, 17177
 - removal of copper by thermal treatment, 4640
 - setting up sheet piles, construction industry safe work guide, 17149
 - ship steels, recommended emergency welding procedure for temporary repairs, 10358
 - slag-iron and steel, minerals yearbook chapter, 14561
 - steels and superalloys, effect of ultrasonic vibration on precipitation hardening, 7292, 13071
 - structural, integration of metallurgical and fracture mechanics concepts of transition temperature factors relating to fracture-safe design, 13300
 - tensile properties, for use in nuclear reactor pressure vessels, 2350
 - titanium-plated in chloride environment, evaluation, 2013
 - welds, reference radiographs, military standard, 544, 5504-5
 - see also Forgings—Stainless steel—also names of manufactured articles.
- Steel castings, see Castings.
- Steel mills:
 - inventories of shapes, current industrial reports, 9136
 - products, current industrial reports, 9147
 - shapes, inventories, current industrial reports, 2732
- Steele, G. Fred, nomination, hearing, 8091
- Steelhead trout, see Trout.

- Steep Rock Lakes, Ontario, iron-bearing materials, reduction roasting operations, 5962
- Steeves, Earl C., lateral vibration characteristics of 1/40-scale dynamic model of Apollo-Saturn V launch vehicle, 1095
- Stehr, Frederick W., revision of genus *Malacosoma* Hubner in North America (Lepidoptera: Lasiocampidae), systematics, biology, immatures, and parasites, 2312
- Stein, Herbert, nomination, hearing, 4074
- Stein, John D., modified tree pruner for twig sampling, 9850
- Steinberg, M., concrete-polymer materials, 1st topical report, 7674
- Stehart, John S., universities and environmental quality, commitment to problem focused education, report, 16399
- Stellarators:
 - confinement of plasma in, 16616
 - stellarator L-1, quasi-steady electric fields and plasma oscillations, studies, 15066
- Stelluto, George L., report on incentive pay in manufacturing industries, 12977
- Stelzer, Milton J., Great Basin tent caterpillar, life history, parasites, disease, and defoliation, 695
- Stembell (destroyer DD 664):
 - loan, extension, agreement with Argentina, 6301
- Stenographers:
 - employment outlook, 4556
 - examination announcements, 5273-74, 9181, 16693
 - discontinuance notice, 5259
 - examination, sample questions, 15150
 - Federal office assistant examination, what it is and how it is given, 5260
 - secretary-stenographer, examination announcement, amendment, 1640
- Stenomidae, Bredin-Archbold-Smithsonian biological survey of Dominica, West Indian Stenomidae (Lepidoptera: Gelechioidea), 13418
- Step into your future, 15051
- Step Test of motivation to excel, 14518
- Stephens, Joseph R.:
 - dislocation structures in single crystal tungsten and tungsten alloys, 17240
 - exploratory study of silicide, aluminate, and boride coatings for nitridation-oxidation protection of chromium alloys, 11448
- Stephens, Kennard O., rice price support and marketing incentive program for Liberia, 16557
- Stephenson, Judith J., computer routines for synthesizing ground backscatter from three-dimensional raysets, 14165
- Stephadders, Federal standard, 14236
- Steps to the moon, 15808
- Stereographic projections, computer plotted, 16315
- Stereoscopic perception, see Perception.
- Sterility, agricultural pests sterilized by gamma-radiation, USSR study, 2057
- Sternitzke, Herbert S., east Oklahoma forests, 701
- Stethoscopes, parts, rate of duty, report, 7907
- Steuenville, Ohio, air quality control region, report for consultation, 14803
- Stevens, Grady H., frequency response of forced-flow single-tube boiler with inserts and exit restriction, 5996
- Stevens, Richard P., Jr.:
 - columbium and tantalum, 16074
 - thorium, 13030
 - tungsten, 16110
- Stevens, T. A., mineral resources of San Juan primitive area, Colo., 14329
- Stevens County, Wash., Colville River basin, streamflow characteristics, 14336
- Stevenson, Albert H., address, Jan. 21, 1969, 11616

- Stevenson, Henry E., naval training bulletin, 3178
- Stewart, B. L., nomination, hearing, 8091
- Stewart, David A., shock shapes and pressure distributions for large-angle pointed cones in helium at Mach numbers of 8 and 20, 13120
- Stewart, Donald D., impact of economic opportunity loans on rural residents, South Carolina, Ozarks, Mississippi delta, 1800
- Stewart, J. K., effects of transit temperatures and modified atmospheres on market quality of lettuce shipped in nitrogen-refrigerated and mechanically refrigerated trailers, 3647
- Stewart, Maxine G., occupational outlook quarterly, 3213
- Stewart, Robert G., nineteenth-century gallery of distinguished Americans, catalog, 6097
- Stewart, William J., Franklin D. Roosevelt Library, era of Franklin D. Roosevelt, selected bibliography, etc., 10166
- Stickel, Lucille F., organochlorine pesticides in environment, 7473
- Stickle, Joseph W., flight tests of direct lift control system during approach and landing, 1080
- Stiffeners (aircraft):
discretely stiffened cylindrical shells with arbitrary end conditions, theoretical analysis of free vibration, 11406
edge-stiffened rectangular plate subjected to boundary loads, etc., plane-stress analysis, errata, 2182
stiffened cylinders, structural synthesis of, 2196
titanium skin-stringer panels, influence of various fabrication methods on compressive strength, 14634
- Stiffness:
load capacity and stiffness, experiments on rotating externally pressurized, air journal bearings, 10123
matrices for analysis of flat plates, study, 2237
zero thermal expansion composites of high strength and stiffness, 8596
- Stiles, Newell T., submarine sediment investigation in vicinity of planned Sealab III habitat, 14725
- Still, Reddick B., jr., relief, 6603, 9392
- Stills, code of Federal regulations, 15875
- Stillwater, Okla.:
flood water information, 9693
floods, Stillwater Creek and tributaries, how to avoid damage, 12517
- Stillwater complex, Mont., platinum, palladium, and rhodium analyses of ultramafic and mafic rocks, 9894
- Stillwater Creek:
and tributaries—
flood plain information, 9693
floods in Stillwater, Okla., how to avoid damage, 12517
- Stillwater Wildlife Management Area, general information, 16455
- Stimulus, visual stimuli as example of solution of abstract problems by bees, generalization, USSR study, 15990
- Stinson, Thomas F.:
financing industrial development through State and local governments, 565
revised estimates of taxes levied on farm real property, 1950-67, 11886
- Stipends:
fellowships and summer stipends for younger humanists, 14678
psychiatric-mental health nursing, institutions offering trainee stipends, list, 13251
- Stipp, Henry E.:
mineral industry of—
Angola, Mozambique, and Portuguese Guinea, 5936
- Stipp, Henry E.—Continued
mineral industry of—continued
Liberia, 5940
other areas of Africa, 4625
- Stiriale, L. A., survey of state-of-the-art of intermediate heat exchangers, 10566
- Stochastic processes, *see* Probabilities (mathematics).
- Stochl, Robert J.:
gaseous-hydrogen requirements for discharge of liquid hydrogen from—
1.52 meter (5 ft) diameter spherical tank, 13115
3.96-meter-(13-ft-) diameter spherical tank, 14632
- Stock, John A.:
mineral industry of—
New Zealand, 961
other South Pacific Islands, 5944
- Stock catalogs, *see* Catalogs.
- Stock exchanges:
laws relating to, compilation, 349
transactions, statistical series releases, SEC, 3464
- Stock ranges, *see* Range lands.
- Stock rooms, northern Illinois, occupational trends, 14466
- Stockholders, *see* Securities.
- Stockman, Norbert O., theoretical analysis of flow in VTOL lift fan inlets without cross-flow, 6013
- Stockmen, low-income ranchers, FHA insured operating loans, provide, hearing, 14014
- Stockpiling, *see* Strategic materials.
- Stockrooms, *see* Stock rooms.
- Stocks:
bonus plans, income tax, laws and regulations, 809
deferred executive compensation, tax reform hearings, summary of testimony, 15342
OTC margin stocks, list, 12637
registered, credit by banks for purchasing or carrying, regulations, 12647
restricted plans, tax reform, press releases announcing tentative decisions, 13945
tax reform hearings, tax treatment, foreign tax credit and deferred executive compensation, written statements of witnesses, 7986
see also Securities.
- Stockyards:
packers and stockyards act—
applicable to auction markets, 11878
what it is, how it operates, 13597
packers and stockyards resumé, 3297
- Stoddard, David R., ecology of Aldabra Atoll, Indian Ocean, 1380
- Stoffel, Fred, right spirit all year long, 5552
- Stoichiometry, *see* Physical chemistry.
- Stokes, C. S., development of barium chemical release system, 14586
- STOL (short takeoff and landing), *see* Aircraft—Airplanes.
- Stomatopoda, *see* Crustaceans.
- Stone, Alan, Bredin-Archbold-Smithsonian biological survey of Dominica, 13428
- Stone, Howard W., leading-edge effects on laminar flat-plate boundary layer and aerodynamic heating, 8636
- Stone, James H., crisis fleeing, original reports on military medicine in India and Burma in Second World War, 15061
- Stone, Ralph W., jr., potential problems related to weightlessness and artificial gravity, 4715
- Stone:
dimension stone, current states and changes, 938
manufacturing, 7732
minerals yearbook chapter, 986
stone working, classification definitions, 1278
trade and tariff information, summaries, 13500

Stone County, Ark., community profile, 15605
 Stone Harbor, N.J., floods, how to avoid damage, 12489
 Stonemasons, *see* Masons.
 Stoner, Herbert R.:
 soil survey—
 Howard County, Tex., 7466
 Mitchell County, Tex., 11675
 Pierce County, Ga., 4943
 Stoneville, Miss., glu-stand research, 15007
 Stony Creek:
 flood plain information, 9695
 upper basin, in eastern flank of Coast Ranges of northern Calif., sedimentation, 15815
 Stopped-stowed rotor composite research aircraft, 6452
 STOR, *see* Scripps Tuna Oceanography Research Program.
 Storage:
 Air Force manual, 15009
 Army technical manual, change, 7667, 9051, 11948, 15053
 extended high-temperature storage effects on performance characteristics of several strain gage pressure transducers, 16231
 facilities for bulk petroleum, 10946
 marking, military standard, 9522
 need for improvement in receipt and storage of military supplies and equipment, Dept. of Defense, GAO report, 12746
 open areas in military installations, geometric design, Army technical manual, 5125
 potato storage 25,000 cwt. pallet box, farm building plan, 5053
 protective, devices for storage of shelter supplies, 258
 sweetpotatoes, agricultural handbook, 5028
 requirements for Arkansas streams, 1976
 stability of civil defense shelter rations, annual report, 3759
 weapon packaging, handling, storage and transportation preparation, performance and compatibility requirements, military standard, 549
 wheeled vehicles and equipment, inspection, care, and preservation, military standard, 8138
 see also names or classes of articles stored.
 Storage batteries:
 battery life and moisture penetration of subdermally implanted devices, 13633
 lead acid cells, plate materials, 1269
 positive plate of lead acid cell, review of recent literature, 13287
 Storage in major power reservoirs in Columbia River basin, 3470
 Storekeepers, 3 & 2, Navy training course, 2346
 Stores:
 department stores, sales, selected areas, special current business reports, 3451
 Government Printing Office bookstores, information, 1324
 photographic dealers and studios, bibliography, 2448
 retail—
 drug and proprietary stores, earnings and hours, 894
 foodstores—
 bakery departments, on-premise and bake-off, evaluation, 5051
 grocery stores, employee earnings and hours, 893
 hardware, bibliography, 1379
 sales, current business reports, 2723, 2726, 2729
 salesmen and saleswomen, employment outlook, 4546
 service apparatus, classification definitions, 2371
 small retail camera, starting and managing, 17370

Stores—Continued
 test of EIPA cheese in 4 supermarkets in Washington, D.C., suburbs, 7597
 variety, bibliography, 14856
 Stork, Emmett J.:
 indolylalkylamines as radioprotectants, 3713
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant in rodents and primates, 3716
 Storm, Richard R., New Florencia, administrative requirements and mapping, administrative control system, 12018
 Stormfury project, *see* Project Stormfury.
 Storms:
 coastal warning facilities chart—
 Canadian border to Eureka, Calif. and Alaska, 14963
 Eastport, Me. to Montauk Point, N.Y., 14964
 Eureka to Point Conception, Calif., 14965
 Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 14966
 data, monthly, 3471
 hurricane surge frequency estimated for Gulf Coast of Texas, 10995
 severe local, Weather Bureau spotter's guide for identifying and reporting, 11031
 small craft, gale, and storm warning facilities chart, Great Lakes, Superior and Michigan, 11782
 tropical—
 Atlantic, climatology, errata, 616
 estimating maximum wind speed, from high resolution infrared data, 9727
 urban storm water runoff, selected abstracts, 12663
 warning facilities chart, Hawaiian waters, 14967
 see also Hurricanes—Thunderstorms.
 Story of U.S. Agricultural estimates, 7600
 Stofelmeyer, R. B., mineral industry of New Mexico, 2157
 Stotland, Jacob J., occupational differences in separation rates for railroad workers, 13389
 Stoves:
 and furnaces, classification definitions, 4839
 electric range, domestic, Federal standard, 5648
 gas range, domestic, Federal standard, 5647
 ranges, electric, gas and oil burning, Federal item identification guide, changes, 535, 8128, 14092
 Stowe, Richard L., strength and deformation properties of granite, basalt, limestone and tuff at various loading rates, 6907
 Straight Cliffs Formation, upper Cretaceous, new members in southeastern Kaiparowits Region, Kane County, Utah, 5705
 Strain (mechanical), *see* Strains and stresses.
 Strain gages:
 high-response triaxial strain-gage anemometers, 7647
 pressure transducers, effects of extended high-temperature storage on performance characteristics, 16231
 Reclamation Bureau test programs, application, 14825
 Strains and stresses:
 asymmetric nonlinear dynamic response and buckling of shallow spherical shells, 11419
 axial loading fatigue machines, misalignment detection, 7328
 axisymmetric and cylindrical isostabiloids, 17206
 behavior of films of 4 adhesives used with wood 1911
 bending of high strength reinforcing bars, literature review and survey of problem, 600

Strains and stresses—Continued

- buckling of—
 - equatorial segment of spherical shell loaded by its own weight, 1133
 - shells of revolution with various wall construction, errata, 16120
- clad stress caused by fission gases, cylindrical reactor fuel pin for, analysis, 7306
- close in ground motion and earth stress, 3806
- composite structures fabricated with high-strength, high-modulus reinforcement materials, 182
- compressive and shear properties of polyamide honeycomb core, 12696
- corrosion-fatigue crack propagation studies of high-strength structural steel, 13291
- dynamic strain aging in carbide strengthened molybdenum alloys, 13130
- effect of—
 - repeated loads on low temperature fracture behavior of notched and welded plates, 1376
 - test machine extensional rigidity on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
 - transverse compressive stress on loss of wood moisture, 677
- elastic-plastic strain and creep, effects on reactivity changes of fast reactor core, 4738
- elastoplastic stress-strain behavior at notch roots in sheet specimens under constant-amplitude loading, 11468
- fatigue crack growth in—
 - 180-ksi yield strength steels in air and salt-water environments, 2355
 - 7075-T6 and 2024-T3 aluminum alloy specimens, effect of stress ratio, 14635
- fatigue-crack-propagation—
 - behavior in panels with simulated rivet forces, prediction, errata, 4699
 - cylindrical shells, 1018
- fatigue damage to concrete, method of measuring accumulating failures, 1821
- fatigue life of—
 - 120-mm bore ball bearings at 600°F with fluorocarbon polyphenyl ether, and synthetic paraffinic base lubricants, 1079
 - Ti-SA1-1 Mo-IV titanium alloy and AM 350 stainless steel sheet, effect of outdoor exposure at elevated temperature, 13133
- fatigue of notched Ti-SA1-1 Mo-IV titanium alloy at room temperature and 550 F (560 K) with flight-by flight loading representative of supersonic transport, 11486
- feasibility of detecting impending fatigue failure in metals by observation of surface chemical and physical phenomena, 11952
- fiber-reinforced plastic laminates under uniaxial, biaxial, and shear loadings, behavior, 6457
- forces and bending moments generated during NRL dynamic tear test, analysis, 13289
- fracture mechanics as related to Neuber stress concentration factor and plastic particle, 13302
- increasing end constraint on compressive strength of model rock pillars, effect, 16098
- meta-benzenedisulfonic acid as stress-reducing additive in Watts nickel electroplating bath evaluation, 16152
- midship bending stresses of dry cargo ships, full scale data analysis and interpretation, 11659
- near-surface horizontal stresses including effects of rock anisotropy, 4645

Strains and stresses—Continued

- new momentum-integral method for treating magnetohydrodynamic and simple hydrodynamic entrance flows, 10133
- normal mode theory for combined structures, 6146
- notch brittleness after prestraining, 4922
- plane-stress, analysis of edge-stiffened rectangular plate subjected to loads, etc., errata, 2182
- plastic flow in locale on notches and cracks in Fe-3Si steel under conditions approaching plane strain, 2417
- prestressed segmented spherical shell, geometric properties, 1032
- remote tension test specimen evaluation at NRL, hot cell equipment developed, 6144
- ring tensile strength studies of ice, 7650
- rolling-element fatigue life of unformed M-50 steel balls, 2253
- shear strain properties to 10^{-10} of selected optical materials, 4675
- sigma phase formation and its effect on stress-rupture properties of IN-100, 10122
- static and fatigue test properties for woven and nonwoven S-glass fibers, 11953
- steady-state stress relaxation analysis of turbine blade cooling designs, 13089
- strain-aging effects in electrorefined vanadium, 4643
- strain-rate sensitivity of 3 titanium-alloy sheet materials after prolonged exposure at 550°F (561°K), 2268
- stress analysis of single barrel conduits by Beggs deformeter, 1364
- stress concentration around broken filament-stiffened sheet, 16191
- stress-corrosion cracking characterization procedures and interpretations to failure-safe use of titanium alloys, 11571
- stress-rupture and tensile properties of refractory-metal wires at 2000° and 2200°F, 7297
- stress wave propagation in elastic-plastic-compactible media for blast shields, 5158
- stressed panels, effects of structural damping on flutter, 4720
- stresses and displacements induced in rock by tunnel boring machine props, 979
- structural lumber, nondestructive parameters for prediction of strength, 4322
- structural synthesis of—
 - ablating thermostructural panel, 4662
 - stiffened cylinder, 2196
- subcritical flaw growth in 9N1-4CO-0.25C steel, fatigue and fractographic investigation, etc., 13277
- tensile and cyclic fatigue properties of graphite filament-wound pressure vessels at ambient and cryogenic temperatures, 13129
- tensile and stress-rupture properties of—
 - rolled Pb-Cd-Sb alloys, 14550
 - Ti-6Al-14V titanium-alloy sheet, effect of hot-salt stress-corrosion cracking, 16170
- tensile behavior of boron-filament-reinforced epoxy rings and belts, 6008
- tensile properties and creep strength of 3 aluminum alloys exposed, etc., 4736
- tensile property of PA-2A reactor pressure vessel, evaluation, 6140
- tensile strength—
 - fine polycrystalline nickel wires, effect of size on, 1104
 - steels for use in nuclear reactor pressure vessels, 2350
- tensile zone of composite concrete beams, use of epoxy or polyester resin concrete, 6910
- tension wood effect on hard maple used for manufactured parts, 15763

Strains and stresses—Continued

- thermal-fatigue—
 - based on accumulated creep damage, calculation, 17237
 - cracking and oxidation of nickel- and cobalt-base alloys in high velocity gas stream, 14624
- titanium—
 - alloys fracture toughness characterization etc., to failure-safe design structural procedures, 7383
 - and titanium-based alloys, effect of nuclear radiation at cryogenic temperatures on tensile properties, 16186
 - torsional divergence, prediction of rotor instability at high forward speeds, 9054

use of—
optical correlation technique for detecting impending fatigue failure, feasibility, 11957

small and large displacement data from essentially elastic buckling tests on columns and plates to correlate theory and experiment, 13673

see also Poisson's ratio—Shear (mechanics).

Straker, E. A., proceedings of special sessions on gamma-ray production and transport and on civil defense shielding, 15074

Strapdown, see Inertial guidance.

Strasburg, Donald W., billfishes of central Pacific Ocean, 10665

Strategic and foreign policy implications of ABM systems, hearings, 8068, 10900, 14031

Strategic materials:

- disposal of lead from national and supplemental stockpiles—
 - law, 15195
 - reports, 8034, 10722
- Federal stockpile inventories, report, 2551
- jewel bearings, need for improvement in procuring and stockpiling, GAO report, 8331
- release 100,000 short tons of lead from national and supplemental stockpiles, hearing, 9334
- stockpile reports, 592, 10993

Strategy, see International relations—Military art and science—Naval art and science.

Strathmere, N.J., floods, how to avoid damage, 12490

Stratigraphy:

- Albemarle Group of Carolina slate belt in central North Carolina, 4352
- changes in stratigraphic nomenclature by Geological Survey, 7043
- Chinle and Moenkop formations, Navajo and Hopi Indian Reservations, 5715
- contributions to stratigraphy (series), 4352-54, 5703-5, 7043-46, 8339, 9889, 11230-31
- cretaceous, in part of McCarthy quadrangle, Alaska, summary, 11231
- Middle Miocene foraminifera and stratigraphic relations in Adelaida quadrangle, San Luis Obispo County, Calif., 734
- new members of Upper Cretaceous Straight Cliffs Formations in southeastern Kaiparowits Region, Kane County, Utah, 5705
- Pierre shale, upper part, and Fox Hills sandstone, lower part, north-central South Dakota, 14348
- Slick Rock district, San Miguel and Dolores Counties, Colo., 747
- Star Peak Group (Triassic) and overlying lower Mesozoic rocks, Humboldt Range, Nev., 7053
- stratigraphic and mineralogic relations and ceramic properties of clay deposits of Eocene age, Jackson Purchase region, Ky., and adjacent parts of Tennessee, 7047

Stratigraphy—Continued

- stratigraphic nomenclature—
 - changes in Cretaceous system, east-central Puerto Rico, 7046
 - volcanic rocks in Jemez Mountains, N. Mex., 9889
- stratigraphic significance and petrology of phosphite nodules at base of Niobrara formation, east flank, Black Hills, S. Dak., 4365

Stratosphere:

- inference of temperature and moisture profiles from observations of infrared horizon, 16135
- northern hemisphere, compatibility of radiosonde data, 16971
- recalculation of stratospheric air samplers, investigation, 7679

Strauss, Klaus J., confer citizenship posthumously 6641, 10839, 12091

Strauss, Michael B., mammalian adaptations to diving, 8579

Strawberries, commercial growing in Pacific Coast States, 1504

Stream pollution, see Water pollution.

Streamlining, see Aerodynamics.

Streams, see Rivers.

Streets:

- omnibus crime control and safe streets act of 1968, financial guide for administration of planning and action grants, 15992
- rigid pavements for streets, Army technical manual, 10551
- see also Roads and highways.

Strength of materials:

- bending of high strength reinforcing bars, literature review and survey of problems, 600
- compressive strength of titanium skin-stringer panels, influence of various fabrication methods, 14634
- controlled destructive testing of pressure vessels, 13286
- experimental bending strength of Atlas LV-3C booster beyond compressive skin wrinkling, 8635
- fracture characterization of narrow gap weldments, mechanical considerations, 11569
- granite, basalt, limestone and tuff, strength and deformation properties at various loading rates, 6907
- increasing end constraint effect on compressive strength of model rock pillars, 14098
- micromorphic material constants from properties of constituents, how to determine, 7240
- strength of structural lumber, some non-destructive parameters for prediction of, 4322
- zero thermal expansion composites of high strength and stiffness, 8596
- see also Joints—also names of materials and articles.
- Streptococcal infections, selected references, 11632
- Streptozotocin, see Antibiotics.
- Stress (physiology):
 - decompression stress in simulated orbital flight, 93
 - nitrogen and helium as factors affecting decompression stress severity, 98
 - physiologic research on human tumbling, 6117
 - stress response as predictor of radiosensitivity in primates, 6419
 - stress response in chronic hypercapnia, 919
- Stress (psychological), see Tension.
- Stress corrosion, see Corrosion and anticorrosives.
- Stresses (mechanical), see Strains and stresses.

- Striae, striations in HE-NE laser, experimental and theoretical investigation, 13048
- Strickler, Paul E., crop drying in U.S. 1966, quantity, equipment, fuel, 10499
- Strikes and lockouts:
work stoppages, 3607
analysis, 7175
final tabulations, 11356
- Strimbeck, Donald C., Bureau of Mines coal-fired gas turbine research project, test of combustor and ash separators for open-cycle plants, 14558
- Stringer, John G., FDA papers, 2825
- Stringers (aircraft), *see* Stiffeners (aircraft).
- Stringham, G. E., behavior of large particles falling in quiescent liquids, 5719
- Strip mined lands, *see* Reclamation of land.
- Strippers (peeling devices):
universal wire stripper, description, 14761
- Strips (metal, etc.):
test, and medical color charts, Federal item identification guide, 6836
- Strishkov, V. V., mineral industry of U.S.S.R., 5948
- Strobel, John J., unit-load explosion in food industry, 15768
- Stroisch, Chong Suk, relief, 10832
- Strokes:
cerebral vascular disease and strokes, 8805
regional medical programs, progress report, 4891
- Strolle, E. O., cane milling of nicotine from green *nicotiana rustica*, 6359
- Strom, Thomas N., vibration of shaft face seals and stabilizing effect of viscous and friction damping, 8637
- Stromquist, Arvid A., stratigraphy of Albemarle group of Carolina slate belt in central North Carolina, 4352
- Strong, Guy M.:
coated charcoal, radioimmunoassay for plasma insulin, 6420
measuring iron metabolism in hematopoietic centers using iron-59 in presence of chromium-51 and iodine-125, 104
- Strong, James P., III, optical simulation of radio-astronomy interferometer experiment, 16156
- Stroud, C. W., chemical equilibrium of ablation materials including condensed species, 14636
- Stroud, Raymond B., mineral industry of Arkansas, 946
- Stroup, Robert H., rural income and expenditure, sample survey in Vietnam, initial report, 14425
- Struble, George R., needle miner infestations in lodgepole pine east of Sierra crest, 681
- Structural composites, *see* Composite materials.
- Structural design, *see* Architecture.
- Structural dynamics, *see* Dynamics.
- Structural engineering, *see* Building.
- Structural geology, *see* Geology.
- Structural materials, *see* Construction materials.
- Structural models, *see* Models (structural).
- Structural sandwich composites, 9521
- Structural shapes, nonmetallic, Federal item identification guide, 15517
- Structural steel, *see* Steel.
- Structural synthesis of—
ablating thermostructural panel, 4662
stiffened cylinder, 2196
- Structures, *see* Buildings—Earthwork and structures—Strains and stresses—Vibrations.
- Struts (aircraft):
impact energy-absorbing strut employing tube cutting, 2243
- Stubbs, Mary L., armor-cavalry, 11375
- Stubbs, Sandy M., effects of bottom-structure flexibility on water landing loads of Apollo spacecraft models, 7280
- Student loan program, *see* Loans—Students.
- Student pilots, *see* Aviators.
- Student work experience and training, high school and college work-study programs, do your own thing and stay in school, 5536
- Students:
adult basic education program statistics, 10974
allied health professions personnel training act of 1966, amended, reports, 8683, 13167
American student activism in comparative perspective, seminar on manpower, 5888
campus riots and disorders, Oct. 1967–May 1969, staff study, 14037
characteristics of students and their colleges, 9154
college—
Federal career directory guide, 12041
opportunities to participate as trainees in vacation work-study programs, engineering, physical sciences, mathematical sciences, examination announcement, 12053
college bound program New York City, secondary program in compensatory education, 6899
do your own thing and stay in school, 5536
educational scholarships, loans, and financial aids, 7661
emergency insured student loan act of 1969—
hearing, 12311
reports, 15249, 15368, 16788
Federal assistance programs, 1969–70 allocations of funds for educational purposes, 14052
financial aid, 12433
financial assistance, hearings, 15312–313
graduate—
enrollment and Ph. D output in scientific fields 1960–61 through 1965–66 trends, 1199
yours is the world—if! (address), 10661
handicapped, mobility for, 1367
high school, your first job... a key to your future, remember Uncle Sam when it comes to choosing an employer, 12054
higher education act of 1965—
amend, report, 15368
guaranteed student loan program, eligible institutions, list, 12429
junior high, high school and college Indian circle programs, 16946
loan program under higher education act of 1965, 7% payment tables and amortization schedules, 6902
loans, health professions program, guide to repayment, deferment, cancellation, 1201
local public school systems, fall, 1967 statistics, 8175
New Left extremists, demands for change, the New Left study, memorandum, 9476
print as Senate document, report, 9404
9th scientific conference of graduate students and junior scientific associates of Institute for History of Natural Science and Technology, section on history of aviation and cosmonautics, 11505
1965–66 financial aid, 4170
pilot guide, 5597
public schools, fall 1968, statistics, 9672
social work student attitudes and knowledge about mental retardation, effect of differences in curricula, and experiences, 6060
student beneficiaries 1965–68, under social security, 8859
student disturbances act of 1969, hearing, 14051
student financial aid, what, where, how, 5556
student manual, SM series, 3870, 7761, 9177, 10620

- Students—Continued
summer jobs and how to find them, ideas that pay off in vacation time, 8511
tax information for students and parents, 8443
today's students, tomorrow's workers (remarks), 11546
- Students For a Democratic Society:
activities, investigation, hearings—
George Washington University, 15322
Georgetown University, 13933
Kent State University, 13933
- Studs, *see* Bolts and nuts.
Study, *see* Curriculum.
- Stutling tubes and components, Federal item identification guide, 5491, 15518
- Stumpage, *see* Timber.
- Stumph, Terry L., paper, June 22-26, 1969, 13378
- Sturiale, Glory:
officer effectiveness report as performance measure, research review, 11889, 16560
stereotyped patterns in Air Force officer performance factor ratings, 9005
- Style in dress, *see* Fashion.
- Style Manual:
Armed Forces news style guide, 11926
Government Printing Office, word division, supplement, 9938
- Styrene-butadiene rubber, chemical analysis, evaluation of certain methods, 11524
- Su guía de medicare, 10380
- Suarez-Diaz, Jose C., relief, 4025
- Subcontracts, *see* Contracts—Government contracts.
- Subject headings:
Atomic Energy Commission, nuclear science abstract indexes, 7705, 16628
Library of Congress, 3473
medical, 3165
medical, cumulated, 7349
nuclear science abstracts, subjects scope, 7704
thesaurus of ERIC descriptors, 9661
- Sublette County, Wyo., geology of Oregon Buttes area, 4348
- Submarine boats:
escape, thermal evaluation of polyvinylchloride exposure suit (empress) and comparison with present submarine deck exposure suit, 920
hi-fi earphones for sonar watch, consideration, 16065
medical officer candidates for service, background and motivational characteristics, 16068
nuclear, fire-retardant paint systems for interiors, 14749
observations of intraocular pressure changes during FBM patrol as measured by Schlotz tonometry, 11372
salivary thiocyanate secretion during fleet ballistic missile submarine patrol, study, 8578
sediment investigation in vicinity of planned Sealab III habitat, 14725
submarine—
damage control books, preparation and revision of, military standard, 12365
United States Navy, 4825
taste thresholds to bitter compounds during submarine patrol, 924
United States preparedness program, investigation, subcommittee report, 1735
- Submarine cables, ocean-cable carriers, uniform system of accounts, PCC rules and regulations, 1860, 2836
- Submarine canyons, *see* Submarine valleys.
- Submarine clothing, *see* Clothing.
- Submarine crews:
dental calculus formation rate in submarine environment, 11371
- Submarine crews—Continued
extra-alveolar air resulting from submarine escape training, post-training roentgenographic survey of 170 submariners, 7198
FBM crew members dietary habits and related factors, 925
fungal flora of submarine environment during prolonged submergence, 921
saliva and dental calculus study, 11374
- Submarine geology:
Alaska research studies, seismology and marine geology, 10634
Atlantic Continental Shelf and slope of U.S. color of marine sediments, 5716
marine geology, research beneath the sea, 11242
- Submarine Medical Center, *see* Naval Submarine Medical Center.
- Submarine research, *see* Oceanography.
- Submarine sandbars, *see* Sandbars.
- Submarine valleys, Wilmington submarine canyon, sediment texture, bottom current activity, and benthonic organisms, photographic investigations, USCGC Rockaway-Smithsonian Institution cruise, 9198
- Submarine warfare:
increasing ASW helicopter effectiveness through communications training, 6134
strategic and foreign policy implications of ABM defense systems, hearings, 14031
- Submarines, *see* Submarine boats.
- Submaxillary glands, adrenal corticosteroids in submaxillary fluid, 11906
- Subroutines, *see* Computers.
- Subsea mineral resources and problems related to their development, 12760
- Subsidesces (earth movements):
ground-water withdrawal, Tulare-Wasco area, Calif., 14345
studies of land subsidence (series), 14345
- Subsidies, maritime, 7195
see also Shipbuilding—also names of commodities, industries, etc.
- Subsistence, Federal item identification guides for supply cataloging, supplements, 2847
- Subsonic aircraft, *see* Aircraft.
- Suburban Motor Freight, Inc., motor carrier accident report, 7222
- Suburbanites, publications, list, 790
- Suburbs:
population trends, hearings, 15309
suburban erosion, 58
suburban programs for urban poor? (address), 17091
zoning controversies, 3 case studies, 1316
see also Cities and towns.
- Subversion, *see* Un-American activities.
- Subversive activities, *see* Un-American activities.
- Subversive Activities Control Board:
annual report, 8911
appropriations, 1970—
hearings, 10767, 16878
report, 12192
member, nomination of Otto F. Otepka—
hearings, 8080, 9477
report, 9386
- Subways, *see* Transportation.
- Suchenwirth, Richard:
command and leadership in German Air Force, 13637
development of German Air Force, 1919-39, 13636
- Sucking bugs, *see* Lygus.
- Sucrose, *see* Sugar.
- Suction and pressure apparatus, portable clinical suction device for use in hyperbaric chambers, 16064
- Sudak, R. G., test of 10,000 GPD reverse osmosis spiral module, pilot plant, San Diego, Calif., 14406
- Sudan:
economic trends and their implications for United States, 8479

- Sudan—Continued
 Nile Basin, agricultural development and expansion, 574
 Republic, background notes, 7481
 Sudan grass, and sorghum-sundangrass hybrids for forage, description varieties, etc., 7588
 Suez, Gulf of, sailing directions, change, 6120
 Suez Canal, sailing directions, change, 6120
 Sugar:
 act, foreign aid provided through operations, GAO report, 17065
 determination of wage rates, prices, acreage, credit, etc., 3474
 foreign agriculture circulars, 2902
 marketing quotas established by Sugar act of 1948, as amended, administration by Agricultural Stabilization and Conservation Service, GAO report, 15777
 nonenzymatic browning in model systems containing sucrose, 92
 payments and quotas, statutes, compilation, 1502
 requirements and quotas, 3475
 statistics and related data, 5066
 sucrose hydrolysis at limited water concentration, 1543
 sugar reports, monthly, 3476
 trade and tariff information, summaries, 10431
 Sugar Creek:
 flood plain information, 4205
 floods in Henderson, Tenn., how to avoid damage, 4208
 Sugar maple, *see* Maple.
 Sugar maple borers, general information, 1907
 Sugarcane:
 variety tests in Florida, 1967-68 season, 3620
 wage requirements for Florida, 1516
 Suggestion systems, management of suggestion awards portion of incentive awards program, Army Dept., GAO report, 14320
 Suicide:
 among American Indians, workshops, Aberdene, S. Dak. and Lewistown, Mont., 16372
 bulletin of suicidology, 6172
 suicide and suicide prevention, bibliography, 14782
 Suits, mens and boys', industrial wage survey, 4594
 see also Pressure suits.
 SUL-BISUL ion exchange process, field evaluation on brackish waters, 9976
 Sulfates, solubility of aluminum in presence of sulfate, 8383
 Sulfides, cuprous sulfide-cadmium sulfide heterojunction, impurity profile and energy band diagram, 6021
 Sulfonates, water surfactant, report of study, 1333
 Sulfur:
 mineral industry surveys, annual, 8583
 native and recovered, mineral industry survey, monthly, 3477
 Sulfur dioxide, alkali-alumina attritioning and SO₂ sorption rates, 11390
 Sulfur oxides:
 air pollutants, control techniques, 4886
 air pollution control, Federal research and development—
 planning and programming, 2410
 pollution abatement program, report, 6685
 air quality criteria, 16357
 Sulfuric acid:
 current industrial reports, 238
 2-(1-decylamino) ethanethiosulfuric acid—dimethyl sulfoxide, radioprotection of primates, 13628
 pharmacodynamics of radioprotective drug, 15020
 radioprotection in rhesus monkey, 3709
 Sullivan, Billy R., study of vibration of concrete, mechanical impedance measurements, 15667
 Sullivan, Gerald V., recovering gold from graphitic schist from Tallapoosa County, Ala., 7221
 Sullivan's Island, S.C.:
 Battery Jasper, Fort Sumter National Monument, historical data, 10205
 battle, and capture of Fort Moultrie, documented narrative and troop movement maps, Fort Sumter National Monument, S.C., 8715
 Sumatra, sailing directions, change, 1242
 Summer employment, *see* Employment.
 Summer enrollment in higher education, 10989
 Summer jobs in Federal agencies, 292
 Summer '68, 7407
 Summers, Robert L., empirical observations on sensitivity of hot cathode ionization type vacuum gauges, 11484
 Summitt, James K., dietary habits and related factors in FBM crew members, 925
 Summitt, Roger K., remote information retrieval facility, 8595
 Sumner, Irving E., low-density foam for insulating liquid-hydrogen tanks, 7284
 Sun:
 chromospheric spicules in H_α and H_β I 3888.65 Å lines, observations, 14858
 ephemeris, 17160
 Great Lakes solar altitude charts and tables, 4611
 1962 total solar eclipse, spectrophotometric standards, 1536
 NRL SOLRAD 9 satellite, Solar Explorer B, 1968-17A program, 13283
 observations made with 6-inch transit circle 1956-62, correction to FK4, GC, and N30, 14724
 solar activity, collection of articles, 13149
 solar-geophysical data (periodical), 3444
 solar proton monitoring system, 14170
 subsolar magnetosphere, determining dimensions of, according to data from terrestrial observations of geomagnetic micropulsations, USSR study, 2096
 Sundance formation, *see* Jurassic period.
 Sundaram, P. M., syncope among aircrew, evaluated at USAF School of Aerospace Medicine, 3692
 Sunfishes:
 green, effects of silt turbidity on behavior, 7475
 use of antimycin for selective thinning of sunfish populations in ponds, 10393
 Sunflowers, Soviet sunflowers and the world vegetable oil market (paper), 5532
 Sung Nan Lee, relief, 6616
 Sunset Crater National Monument, general information, 7358
 Sunspots, *see* Solar flares.
 Superalloys, *see* Alloys.
 Superconductivity:
 high-temperature problems, USSR study, 15988
 microstructure on superconductivity, effect in columbian-hafnium system, 10059
 superconducting devices, quarterly literature survey, 2290
 superconductive—
 magnet system, 14-tesla, 15-cm-bore, 4677
 materials and some of their properties, 10180.
 7.2-Tesla 4-magnet assembly, 17212
 Superconductors:
 AC losses of high field superconductor and implications for power applications, theoretical and experimental study, 13285
 superconducting lead pressure contacts, 1263
 superconduction thin films, 1014, 2186

Superconductors—Continued
 superconductive dust cores for inductive elements, 7295

Supergrade positions, *see* Civil service.

Superior, Lake:
 bottom trawl explorations, 6547
 small craft, gale, and storm warning facilities chart, 11782

Superior National Forest, spruce budworm defoliation, biological evaluation, 7006

Supermarkets, *see* Stores.

Superphosphates, *see* Phosphates.

Superposition (mathematics):
 use in digital computers to obtain wind-tunnel interference factors for arbitrary configurations, with particular reference to V/STOL models, use, 6025

Supersonic aircraft, *see* Aircraft.

Supersonic airplanes, *see* Airplanes.

Supersonic cones, *see* Cones.

Supersonic flow, *see* Flow.

Supersonic inlets, *see* Air Inlets (aircraft).

Supervision, *see* Supervisors.

Supervisors:
 construction industry, construction industry safe work guide, 17150
 personnel management programs, 7784
 supervising the hard core, management guidelines, 16004
 supervisory responsibility for safety, 14448

Supplies, *see* Agricultural supplies—Dental supplies—Government supplies—Medical supplies—Military supplies.

Supply accounting, *see* Accounts and accounting.

Supply and demand:
 demand and price situation, 2758
 petroleum in free world, 10273
 phosphate rock, potash and nitrogen, statistical analysis, 14329
 supplying U.S. markets with fresh winter produce, capabilities of U.S. and Mexican production areas, 6856, 8150

Supply catalogs, *see* Military supplies.

Supply Corps, Navy, *see* Navy Supply Corps.

Supply facilities, Navy, design manual, 2326, 13208

Supply management, supply duties, guide for Navy line officers, 17308

Support service contracting, 420

Supports:
 horizontally supported planar surfaces, classification definitions, 2364
 one component, magnetic, support and balance system for wind tunnel models, 10088
 porous tubular supports, in-situ formation of regenerative cellulose acetate membranes on, 17096

Supreme Court:
 Associate Justice, nomination of Clement F. Haynsworth, jr., hearings, 15466
 cases adjudged—
 Court of Claims cases, 14073
 official reports, 3216
 United States reports, 1458-59, 4983, 7538
 Chief Justice, nomination of Warren E. Burger, hearing, 9478
 journal, 3486
 role in our Constitutional system, hearings, 491
 salary reform, recommendations, message from the President, 3971

Sureties, *see* Guaranties and sureties.

Surf claims, *see* Claims.

Surface active agents:
 dimethylsiloxane-containing or fluorocarbon-containing surfactants, wetting of low-energy surfaces by nonaqueous solutions, 10255
 molecular surface films, influence on production of condensation nuclei from bubbled sea water, 2351
 production and sales, 10434

Surface active agents—Continued
 surface chemical methods of displacing water or oils, and salvaging flooded equipment, 8762
 trade and tariff information, summaries, 6316
 water surfactant, report of study, 1333

Surface area measurements, *see* Surfaces.

Surface chemistry:
 adsorption of carbon-14-labeled stearic acid on soda-lime glass, 12301
 detecting impending fatigue failure in metals by observation of surface chemical and physical phenomena, feasibility, 11952
 plastics reinforced by strong fibers, 14755

Surface mining, *see* Mines and mining.

Surface motion measurements, *see* Surfaces.

Surface tension, wetting of low-energy surfaces by nonaqueous solutions of dimethylsiloxane-containing or fluorocarbon-containing surfactants, 10255

Surface water, *see* Water.

Surfaces:
 air-bearing systems for grossly mismatched surfaces, 1546
 application of statistical response surface fitting in predicting lignite properties, 5959
 Basin and Range province, trend-surface analysis and geomorphic implications, 7051
 blade-to-blade stream surface of turbomachine, FORTRAN program for calculating transonic velocities, 16176
 boundary effects of uniform size roughness elements in two-dimensional flow in open channels, 4214
 cottonseed, method of determining surface area, 7613
 deployed canard surfaces and rocket nose sections of Apollo launch escape vehicle, aerodynamic loads, 13081
 fluctuating pressures at Mach numbers between 1.6 and 2.5, power and cross-spectra and space-time correlations, 16185
 lifting surfaces with trailing-edge controls, etc., development of 3-dimensional pressure-distribution functions, 17220
 metal surfaces, ultrasonic detection of calcium sulfate scale, 11284
 nickel (111) surface, LEED study of adhesion of various materials, 10149
 planar, horizontally supported, classification definitions, 2364
 randomly rough, statistical characteristics of quadrature components of signals reflected from, 7130
 roughness drag due to two-dimensional fabrication-type surface roughness on ogive cylinder from force tests at transonic speeds, 4732
 scale formation, effect of surface potential, 4400
 semiempirical fracture analysis for small surface cracks, 13118
 sigma-t, in Indian Ocean, analysis, 13217
 surface motion measurements, 5170
 surface pressures on blunt bodies of revolution at small angles of attack in supersonic flow, method for determining, 2229
 surface vehicle dynamics, experimental verification, 16126
 suspended surface coatings for heat shielding, USSR study, 15918
 thermal radiation heat transfer exchange, 10096
 unsteady surfaces and internal waves, diffraction, USSR study, 7148

Surfacing materials:
 guide for fastening in rehabilitation operations, 4257
 suspended surface coatings for heat shielding, USSR study, 15918

Surfactants, *see* Surface active agents.

INDEX 1969

- Surgeon General, Public Health Service, *see* Public Health Service.
- Surgeons:
flight, aerospace medicine, guide, 3685
Navy flight surgeon, who, what, why, where, when, 4617
- Surgery:
brain, stereotaxic techniques, selected readings, 1485
cardiovascular, 1186
neurosurgery—
and neurologic sciences, bibliography, 6333
stereotaxic techniques, selected readings, 7554
postoperative hepatic necrosis and halothane anesthesia, study of possible association, 7344
- Surinam:
background notes, 14902
economic trends and their implications for United States, 8461
- Surplus military property, *see* Surplus property.
- Surplus property:
act of 1944 and amendments, compilation, 355
agreement with Indonesia, 7500
airport property, release from restrictions, Federal aviation regulations, 16981
defense disposal manual, changes, 1768, 5484, 10944, 15494
disposal of excess military property in Vietnam, agreement, 6283
donable, program, hearings, 14032
donations to public museums, permit, report, 15401
excess property, opportunity for savings by increasing transfer among Federal agencies, GAO report, 7032
Federal, for health, educational, and civil defense purposes, how to acquire, 7065
Federal property and administrative services act, amend—
hearings, 14032
report, 15401
State agencies, directors, directory, 11256
utilization program, how it contributes to Nation's health, education, and civil defense, 7067
see also Personal property.
- Surplus Property Utilization, HEW, directory, 11256
- Survey, Stanley S.:
remarks—
Oct. 28, 1968, 1481
Dec. 6, 1968, 2533
Dec. 7, 1968, 2527
- Surveillance (military):
production surveillance and reporting Contract Administration Services, DoD Contract Management Conference, 1779
- Survey of current business (periodical), 3487
- Surveying, publications, price list, 2406
see also Hydrography.
- Surveymarine, high speed hydrographic survey platform, 10222
- Surveyor Project, *see* Project Surveyor (unmanned lunar exploration).
- Surveyors, employment outlook, 4558
- Surveys, *see* Community surveys—Social surveys—*also* subjects of surveys.
- Survival:
crash survivability, 16244
family food stockpile, 16539
human, in aircraft emergencies, 4678
in an earthquake, 5724
preparedness in rural areas, 5667
survival, evasion and escape, skills, etc., Army field manual, 11934
- Survivors' benefits:
children, civil service retirement system, 6520
- Survivors' benefits—Continued
social security—
calendar year data, 6233
rulings, 10373
statistics, monthly, 3130, 6233, 16414
veterans, benefits, indemnity compensation and insurance, increase, hearing, 12296
your social security, 7462
- Survivors' insurance:
social security rulings, 3442
your social security, 1402
see also Old age, survivors, disability, and health insurance.
- Sussex County, Del., community profile, 15606
- Sutherland, Arthur A., jr., design of strap-down gyroscopes for dynamic environment, Interim scientific report, 14575
- Sutherland, Harrell C., jr., sound attenuation provided by perforated earmuffs, 1548
- Suttles, John T., method of integral relations solution for radiating, nonadiabatic inviscid flow over blunt body, 17230
- Svejda, George J.:
Castle Garden as immigrant depot, 1955-1890, 13183
history of Star Spangled Banner from 1814 to the present, 14704
- Swain, F. M., biogeochemistry of Delta-Mendota Canal, Central Valley project, Calif., 16393
- Swain County, N.C., forest inventory statistics, 2515
- Swamp chestnut oak, *see* Oak.
- Swamp tupelo, *see* Tupelo.
- Swamplands:
wetlands for waterfowl, other wildlife, etc.—
Minnesota, 1432
Nebraska, 1433
North Dakota, 1434
South Dakota, 1435
- Swan, Edward P., New Florencia, initial decisions on census program, 6504
- Swans, hunting, possession, transportation and/or importation, 1969-70, in United States, etc., Federal regulations governing, 14884
- Swanson, Bruce L., statistics of farmer cooperatives, 1966-67, 11033
- Swanson, Howard E., standard X-ray diffraction powder patterns, 14665
- Swanston, Douglas N., mass wasting in coastal Alaska, 17052
- Swaroop, Ram, simple technique for automatic computer editing of biodata, 11479
- Swaziland, *see* South Africa.
- Sweaters, industry in Puerto Rico, data pertinent to review of minimum wage rates, 11775
- Sweden:
alien amateur radio operators, authorization to operate, agreement, 13483
capsule facts for Armed Forces, 3726
economic trends and their implications for United States, 5785, 12851
economy, basic data, 16707
market for industrial heating equipment in Sweden, 1961-67, 3894
mineral industry, minerals yearbook chapter, 5947
plant quarantine import requirements, 10465
- Sweeney, Daniel F.:
minimum wage rates under fair labor standards act in—
laundry and cleaning industry in Puerto Rico, 10449
retail trade industry in Puerto Rico, 10450
- Sweeney, John W.:
kyanite, 13012
mineral industry of Florida, 951

Sweet, George E.:
experimental and analytical investigation
of balloon-type enclosures for thermal
control of satellites, 11458
radiometer for use in thermal studies of
spacecraft, 1136

Sweet gum:
stagnated stands, thinning improves
growth, 8300
sweetgum seed production on soils in cen-
tral Mississippi, 1929

Sweet potatoes, *see* Sweetpotatoes.

Sweetgum, *see* Sweet gum.

Sweetpotatoes:
acreage marketing guide, 6805
acreage, yield, etc., by States and seasonal
groups, 13495
storage, agricultural handbook, 5028

Sweetwater County, Wyo., geology of Ore-
gon Buttes area, 4348

Sweetwater River and Valley:
flood plain information, 9604
San Diego County, Calif., floods, prob-
lems, solution, etc., 12513

Swigert, Paul, COMPUTE, time-sharing desk
calculator program, 1130

SWIMM code, stress wave propagation in
elastic-plastic, compatible media, 5158

Swimming pools, as you travel, ask yourself,
how safe are motel pools? 8799

Swimming suits, *see* Bathing suits.

Swindells, J. F., precision measurement and
calibration, selected papers on tempera-
ture, 6047

Swine:
brooding pigs, use of infrared lamps, 6382
farrowing and growing building for hogs,
farm building plan, 3655, 7603
farrowing house, farm building plan, 3660
garbage-feeding, national status on con-
trol, 3168
grades of hogs slaughtered from 1960-61
to 1967-68, improvements, 7598
hogs and pigs, 4982
10 corn belt States, 10425-426
U.S. and 10 corn belt States, 6308, 11733
internal parasites of hogs, preventing and
controlling, 6378
production, methods, problems, etc., 3635
sow feeders, portable, farm building plan,
16551

Switchboards, apparatus, current indus-
trial reports, 3857

Switches, *see* Electric switches—Electric
switchgear—Electronic switches.

Switzer, George, partially melted kyanite
eclogite from Roberts Victor Mine, South
Africa, 7454

Switzer, Mary E.:
addresses—
Apr. 28, 1968, 4929
June 15, 1968, 4930
Sept. 17, 1968, 4927

Switzerland:
capsule facts for Armed Forces, 112
economic trends and their implications for
United States, 814, 8462, 17118
economy, basic data, 5291
foreign trade regulations, 9209
trade agreement, termination, 8886

Sybor, Adrian, manpower (periodical), 5882

Sycamore, seed germination, effects of pro-
venance, stratification, temperature, and
parent trees, 7016

Sycamore Creek, watershed, Maricopa
County, Ariz., water resources, 5727

Sycamore NE quadrangle, Ill., floods in area,
8346-47

Sylvestre, G. Paul, New Florencia, action-
oriented census program, pretesting, 6506

Synoptic-oriented failure analysis in multi-
component systems, 8620

Symbols:
nautical chart symbols and abbreviations,
chart, 9194
ship structural symbols for use on ship
drawings, military standards, 16923

Symbols—Continued
symbols for packages and containers for
hazardous industrial chemicals and
materials, military standard, 14108
see also Maps and charts.

Symington, Stuart, United Nations, report,
8069

Symmetry, mathematical techniques for EPR
analysis of S-5/2 ions in C₂ symmetry,
application to Fe³⁺ in quartz, 11523

Symphony orchestras, bargaining in major
symphony orchestras, 12976

Symposiums:
abundant nuclear energy, symposium pro-
ceedings, 9065
All-Union, systems research, 17127
biology of alder, 12672
Californium-252, proceedings, 9066
CEMA symposium on atomic power sta-
tions with fast reactors, USSR study,
12912-913
charge to the human ecology symposium
(address), 2411
compressible turbulent boundary layers,
17216
current status in medical practice, pro-
ceedings, 3795
diabetic retinopathy, treatment, 11639
dialysis for nurses, 2414, 7415
environmental measurements, valid data
and logical interpretation, symposium,
4878
human ecology, proceedings, 11630
interdisciplinary approach to friction and
wear, proceedings, 11428
long range forecasting methodology, Air
Force research program, 78
man and nature in the city, 10395
man in maintenance reliability system,
FAA missions, 5585
manpower and private resources, 8542
mechanical and thermal properties of
ceramics, proceedings, 8668
neoplasms and related disorders of in-
vertebrate and lower vertebrate animals,
16258
nuclear medicine, current status in medi-
cal practice, proceedings, erratum, 7676
nuclear metallurgy, reprocessing of nu-
clear fuels, 15075
nuclear standards for chemistry and tech-
nology, proceedings, 7322
oral cancer, interprofessional symposium,
11626
potato waste treatment, proceedings, 12660
radioecology, 2d national symposium, pro-
ceedings, 7675
State X-ray programs, past, present, and
future, 11611
3d International Symposium on Basic En-
vironmental Problems of Man in Space,
USSR papers, 5821
warm fog properties and modification con-
cepts, progress of NASA research, pro-
ceedings, 16148
weather modification program of Atmos-
pheric Physics and Chemistry Labora-
tory, 12576
Wolf-Rayet stars, proceedings, 2287
Synchrocytostons, NASA-SREL utilized in
energy determinations of large area proton
beams for radiobiologic research, 6416

Synchrotrons, proton, 1/2 TeV, transverse
shielding calculations for components,
7681

Syncope, among aircrew, evaluated at USAF
School of Aerospace Medicine, 3692

Syndrome, *see* Diagnosis.

Syner, James C., computer based biomed-
ical information system, logic foundations
and techniques, 5133

Synoptic code, standards and procedures for
coding synoptic reports, 306

Synoptic meteorology, *see* Meteorology.

Synthesis:
and evaluation of new membrane candidates for application in reverse osmosis, 2010
functional synthesis of radio engineering, microelectronic equipment components, USSR study, 15940
methods for manual aerospace control systems with applications to SST design, 2191
new membrane candidates for application in reverse osmosis, 15857
novel polyimide precursor, S643
structural—
ablating thermostructural panel, 4662
stiffened cylinder, 2196
Synthetic chemicals, *see* Organic compounds.
Synthetic fibers, *see* Fibers.
Synthetic organic chemicals, *see* Organic compounds.
Synthetic rubber, *see* Styrene-Butadiene rubber.
Synthetic resins, *see* Resins.
Synthetic woven goods, *see* Textiles.
Syphills, tests, 1969 manual, 6184
Syracuse, N.Y., area wage survey, 897
Syria, background notes, 10409
Syrian Arab Republic, *see* Syria.
Syska, Arthur D., exploratory investigation of fire-retardant treatments for particle-board, 17017
System package program NS-SPP series, 14190
Systematic jointing in western part of anthracite region of eastern Pennsylvania, 4351
Systematics, *see* Biology.
Systems:
analysis models, applications of, survey, 2211
analysis summary of methods for measuring population change, 7431
application of systems approach to training, case study, 13793
approach to accident investigation (paper), 17297
automatic systems, USSR study, 8498
bioinstrumentation, NASA contributions, survey, 4698
communication system design, 17227
complex, simulation, USSR study, 17136
cooperative area manpower planning system, concentrating manpower services against poverty, 7163
electric design for naval aircraft and missiles, technical manual, 10213
farm credit system, functions and organization, 620
fuzzy systems, theory, 16139
HYDRA, hydrographic digital positioning and depth recording system, development, test and evaluation, 10217
identification, applications of quasilinearization theory, 11489
maintenance service organization, FAA handbook, 5593
man in maintenance reliability system, FAA symposium, 5585
management systems, regulation and control, USSR study, 15898
microwave systems using terminal invariant parameters, description and evaluation, 17262
multicomponent, symbol-oriented failure analysis, S620
national aviation system plan, 1970-79—plan, 11049
system requirements and criteria, 11048
radio data link system M-1, instructions for operation, 1831
research, All-Union symposium, 17127
safeguards systems analysis of nuclear fuel cycles, 16631
safety management, safety aids decision-making, progressive new approach, 5757

Systems—Continued
safety program for systems and associated subsystems and equipment, requirements, military standard, 15527
shakedown test, aircraft, NAS en route stage A model 1, functional package A, flight data processing, 15693
single- and double-mirror, geometrical image aberrations in, mathematical determination, 1052
soil projectile, model design, application of similitude, 1027
solid waste management in Fresno area, final report on solid waste management demonstration, 16373
State airport system planning, guide, 5090
stream-aquifer systems, analog-digital models, 12754
systematic-structural approach and specific nature of philosophical knowledge, USSR study, 2092
technology applied to social and community problems, 16894
elementic automated microbial identification system (TAMIS) and subsystems, 80
see also names or types of systems, e.g. Electronic data processing systems.
Systems engineering, management, military standard, 16927
Systems reliability, *see* Reliability (mechanical).
Systems Research and Development Service: report RD series, 6314, 7539, 16488-492
scientific and technical reports, list, 6315, 14938
SRDS program, goals, achievements, trends, 2509, 11737, 13497
Syvertson, C.A., research problems in atmosphere entry and landing for manned planetary missions, 4714
Szaniuslo, Andrew J., thermal electromotive force change for SiPt 13Rh/Pt thermocouples in 1530 K, 10-8 torr environment for 3700 hours, 11485
Szueh, John R., application of double-dead-time model describing chugging to liquid-propellant rocket engines having multi-element injectors, 11491

T

T.V.A., *see* Tennessee Valley Authority.
Tabhan, Rogello, relief, 16756
Table saw, how to inspect chart, 5893
Tables (compilation), *see* technical, scientific, and economic subjects.
Tables (mathematics), *see* Mathematics—Periodic systems.
Tablets (medicine):
iodine, effect of soft drinks mixes on germicidal properties of, 14510
Tabor, Elgie, L., relief, 16762
Tabor, R. W., on batholiths and volcanoes, intrusion and eruption of late Cenozoic magmas in Glacier Peak area, North Cascades, Wash., 14347
Tabulation, consolidated, shipments of selected electronic components, 3827
see also subject of tabulation.
Tacina, Robert R., analysis of total-pressure loss and airflow distribution for annular gas turbine combustors, 14631
Tacks, Federal Item identification guide, change, 15510
Tactics, *see* Military art and science.
Tactile sensitivity:
responses to underwater distortions of visual stimuli, 927
tactile information channel characteristics, 17198
Tactual perception, *see* Perception.
Tacuber, Karl E., migration in United States, analysis of residence histories, 1346

- Taft, Robert, Jr., report of special study mission to south and southeast Asia, 9347
- Taft, Robert A., Water Research Center, *see* Robert A. Taft Water Research Center.
- Taft, W. H., National Historic Site, *see* William Howard Taft National Historic Site.
- Taft-Hartley act, *see* Industrial relations.
- Taggart, Harold E., calibration principles and procedures for field strength meters (30 Hz to 1 GHz), 8671
- Tagged arithmetic, 14619
- Tags, *see* Automobile license plates.
- Tahoe National Forest, camping and picnicking, 14253
- Tail (aircraft):
boundary-layer control on inverted V-tail of twin-propeller deflected-slipstream STOL airplane model, aerodynamic characteristics, 1082
- Tailings (metallurgy), *see* Hydraulic mine filling.
- Taiwan:
economic relations (address), 15162
economy, basic data, 9200
food processing industry, 1656
mineral industry, minerals yearbook chapter, 14543
U.S. soybean market, 15746
- Takasaki, K. J.:
water in Kahuku area, Oahu, Hawaii, 12797
water resources of windward Oahu, Hawaii, 7064
- Take-off (aircraft):
electronic landings, takeoffs described, USSR study, 2078
optimum takeoff and climbout trajectories for noise abatement, technique for calculating, 11450
- Takkunen, Philip D.:
compatibility tests of molten uranium with tungsten and tungsten-1.5 percent hafnium, 6020
fabrication of cermet of uranium nitride and tungsten or molybdenum from mixed powders and coated particles, 7294
- Talc:
minerals yearbook chapter, 16107
new deposit in St. Lawrence County, N.Y., 7041
- Talent:
educational talent search program, 578
international migration of talent and skills, hearings, 487
- Talented children, *see* Children.
- Talking books, talking books & cerebral palsy, 5923
- Tallapoosa County, Ala., gold, recovering from graphitic schist, 7221
- Tallmadge, G. Kasten, study of training equipment and individual differences, effects of subject matter variables, supplementary report, 1256
- Tallow, beef, and corn oil influence on growth of channel catfish, 10401
- Tamanini, P. J., structural systems in support of highway safety, 14821
- TAMIS, *see* Telemetry.
- Tampa, Fla.:
area wage survey, 2119
Gulf Intracoastal Waterway, St. Marks to Tampa Bay, engineers report—departmental edition, 595
document edition, 366
- Tampa Harbor:
Port Sutton, Fla., channel improvements—departmental edition, 15662
document edition, 15220
- Tangerine juice, canned, standards for grades, 1754, 10926
- Tankage, liquid hydrogen, venting, 11474
- Tankers:
air tanker pilots flying forest fire retardant missions, physiological studies, 10581
- Tankers—Continued
fire fighting manual, 3888
tank vessels, rules and regulation, 15158
use of air tankers pays off, case study, 17033
- Tanks (combat vehicle):
Army tank program, review—hearings, 13920
report of subcommittee, 10769
welded-joint designs, armored-tank type, military standard, 6838
- Tanks (containers):
Bell 2041 helicopter external helitank, evaluation, 12679
caps, Federal item identification guide, 6833, 16913
cryogenic tanks in space, shadow shields for thermal protection, experimental studies, 1106
- Liquid hydrogen—
low-density foam for insulating, 7284
spherical, effect of size on normal-gravity self-pressurization, 10125
spherical, gaseous-hydrogen requirements for discharge, 13115
3.96-meter-(13 ft-) diameter spherical tank, gaseous-hydrogen pressurant requirements for discharge, 14632
- NRL acoustic research tank facility, 10259
- toroidal, liquid-vapor interface configurations in, during weightlessness, errata, 1063
- Tanning and tanning materials, *see* Leather, hides, and skins.
- Tannins, trade and tariff information, summaries, 6316
- Tantalum:
alloys—
development, 2178
statistical analysis of high temperature creep-rate data, 16175
counterflow double-containment tantalum-stainless steel mercury boiler, design and fabrication, S617
double-containment tantalum-and-stainless-steel mercury boiler for SNAP-8, design-point performance, 1137
minerals yearbook chapter, 16074
oxygen in, solubility and diffusion, 9578
tantalum-base T-111 alloy at elevated temperature, mechanical behavior, 16143
- Tanzania:
Army area handbook, 170
capsule facts for Armed Forces, 3728
mineral industry, minerals yearbook chapter, 2149
- Taos Indians, Blue Lake, hearings, 481
- Tape, Gerald F.:
remarks—
Nov. 14, 1968, 200
Dec. 11, 1968, 1607
Feb. 6, 1969, 3816
Mar. 31, 1969, 7718
Apr. 1, 1969, 9086
- Tape, pressure sensitive adhesive, Federal standard, 14237
see also Adhesive tape—Electronic data processing systems.
- Tape (magnetic), *see* Magnetic tape.
- Tappan, Donald V.:
carbonic anhydrase analyses on blood of subjects exposed to helium-oxygen environment at 7 atmospheres pressure, 16061
maximum rate analysis of erythrocyte carbonic anhydrase in hypercapnic guinea pigs, 13001
maximum rate kinetic analysis applied to enzyme assay data, 10046
- Tar and tar crudes, production and sales, 6320
- Tar River, flood plain information, 9695
- Tar roofing, *see* Roofing.
- Tar siding, *see* Siding.
- Tarawa, 76 hours, Marine assault, 913

Targets:

- climatological mean probability of penetrable optical path for high intensity, high contrast optical targets—
- Africa—
 - graphs, 1841
 - maps, 4220
- Eurasia—
 - graphs, 1840
 - maps, 4219
- North America, maps, 4222
- South and Central America, Caribbean Area, Australia, etc.—
 - graphs, 1842
 - maps, 4221
- effects of projectile density and target temperature when determining crater characteristics of metals alloys under hyper-velocity impact, 8627
- Infrared systems for detection, direction finding and automatic tracking of moving targets, USSR study, 2061
- maximum side-aspect target strength of individual fish, empirical equation for determination, 10220
- monochromatic targets, effects of differing amounts of training on sextant sighting performance, 14605
- noncoherent detection of nonfluctuating targets in contaminated-normal clutter, 10267
- nonfluctuating, detection in log-normal clutter, 4833
- plane motion of bats toward and nature of changes of echolocative signals in process of target selection and recognition, USSR study, 15902
- polycarbonate, shock-wave pressure decay impacted by cylindrical polycarbonate projectiles, 2228
- thin aluminum targets, experimental investigation of momentum transfer associated with impact, 17239
- use of yellow lenses in Air Force operations, 3701

Tariff:

- act of 1930, as amended, special and administrative provisions under titles 3 and 4, text, 3450
- antidumping, report of President of United States, 14024
- communications carriers, FCC rules and regulations, 2837, 9749
- customs—
 - bulletin, weekly, 2737
 - cases adjudged, 4119
 - duties, code of Federal regulations, 11118
 - free entry privileges in Philippines to dependents of personnel assigned to South Viet-Nam, agreement, 7496
 - highlights for Government personnel, civilian and military, 16906
 - hints for returning U.S. residents, know before you go, 14075
 - tariff of European Communities, English translation, 11679
- customs convention—
 - A.T.A. carnet for temporary admission of goods, 7513
 - containers, 7515
 - E.C.S. carnets for commercial samples, 7514
 - international transport of goods under cover of TIR carnets, with protocol of signature, 8887
 - temporary importation of professional equipment, 7512
- customs regulations, 2738
- exporting to United States, 15490
- revised pages, 5473, 8110, 10932, 14076-077
- decisions under customs laws, Customs Court, 8111.

Tariff—Continued

- emergency laws of 1921, with amendments, compilation, 3940
- foreign trade and tariff proposals, hearings, 13944
- importance of reducing tariff and export restrictions as means of maintaining U.S. trade surplus (address), 16698
- letters received, 1833-69, from collectors of customs, 16215
- popular tourist items, 1969 rates of duty, 6821
- schedules, annotated, 1471, 3489-90
- supplements, 6317, 13501, 16494
- summaries of trade and tariff information, 1460-66, 2511, 4987-88, 7541, 10430, 10432-433, 11739, 13500, 14939
- worldwide protectionism, a fearful possibility (remarks), 1663
- see also names or classes of articles imported or exported.
- Tariff Commission:
 - appropriations, 1970—
 - hearings, 10767, 16878
 - report, 12192
 - members, nomination of—
 - Leonard, Will E., jr., hearing, 4077
 - Newsom, Herschel D., hearing, 4077
 - notices of hearings, investigations, etc., 3488
 - press releases, 3328
 - report, 1968—
 - departmental edition, 2510
 - document edition, 1693A
- Tariffs and trade, general agreement on, see General agreement on tariffs and trade.
- Tarr, Curtis W., nomination, hearings, 9447
- Tarrant, Robert F.:
 - nitrogen enrichment of 2 forest ecosystems by red alder, 12714
 - nutrient cycling by throughfall and stemflow precipitation in 3 coastal Oregon forest types, 4326
- Tarryall Creek, geology and ore deposits of southern Tarryall region, Park and Jefferson Counties, Colo. (series), 12781
- Task Force on Demonstrations, Protests, and Group Violence, staff report to National Commission on Causes and Prevention of Violence, 13324
- Task Force on Firearms, staff report to National Commission on Causes and Prevention of Violence, 13321
- Task Force on Historical and Comparative Perspectives on Violence in America, staff report to National Commission on Causes and Prevention of Violence, 13328
- Task Force on Law and Law Enforcement, special staff study to National Commission on Causes and Prevention of Violence, 13325
- Task Force on Prescription Drugs:
 - background papers—
 - approaches to drug insurance design, 8389
 - current American and foreign programs, 1981
 - drug makers and distributors, 4380
 - drug prescribers, 1982
 - drug users, 1983
 - coverage of drugs under medicare, interim report, 4381
 - final report, 5734
 - interim report and recommendations, 1984
 - report and recommendations, 5468
 - report of Secretary's Review Committee, 15821
- Task variables, sixty-minute vigilance task with 100 scoreable responses, 14501
- Tasmania, lights and fog signals, list, changes, 6127, 13264, 17301
- Taste, thresholds to bitter compounds during submarine patrol, 924
- Tate, D. R., gravity measurements and standards laboratory, 14675

Taub, Martin :
 glucose tolerance in dogs exposed to altitude and drug administration—
 amphetamine, 95
 meperidine, 96

Taube, Carl A. :
 patients in public institutions for mentally retarded, 1967, statistics, 17343
 veterans with mental disorders, 17344

Tauchert, T. R., lattice model for composite materials, 7242

Taut wire buoy array for environmental monitoring in AUTECH, 13231

Tax, see Taxation.

Tax Court :
 appropriations, 1970—
 hearings, 9331, 10886
 law, 16740
 reports, 9310, 9312, 10873, 15281
 reports (decisions)—
 bound volume, 7543, 16496
 consolidated pamphlets, 3491

Tax credits :
 foreign tax credit for U.S. citizens and resident aliens, 8431
 incentives to establish new or expanded job producing industrial and commercial establishments in rural areas, hearings, 10896
 investment credits, 8428
 retirement income credit, tax information, 8437

Tax Division, Justice Dept., opportunities for attorneys, 15993

Tax exemption :
 deny to private foundations and organizations engaging in improper transactions with Government officials hearing, 10894
 foundations and charitable trusts, their impact on our economy, 13942
 foundations, their impact on small business, hearings, appendix, 1711
 organizations—
 how to apply for exemption, information, 8432
 testimony at public hearings, summary, 9377
 tax reform hearings dealing with tax-exempt organizations, summary of problems, 7996
 your exemptions and exemptions for dependents, 8457

Tax guide for—
 small business, 4418
 U.S. citizens abroad, 2019

Tax information on—
 deductions for homeowners, 4419
 mutual fund distributions, 4420

Tax reform—
 and economic policy (remarks), 17428
 studies and proposals, Treasury Department, 4006

Tax refunds :
 appeal rights and claims, 8424
 internal revenue taxes, refunds and credits, report, 12143

Tax returns, see Income tax—Taxation.

Taxation :
 Administration's balance-of-payments proposals, digest of oral testimony, 1714
 Administration's efforts to enact tax reform (remarks), 17426
 alcohol, free of tax, distribution and use, code of Federal regulations, 11299
 aliens, United States tax guide, 8455
 bank's role (remarks), 16514
 career opportunities, IRS, 4406
 clergymen and religious workers, social security tax information, 8439
 District of Columbia, comparison with those of its environs and other metropolitan areas, GAO report, 5685
 double, convention with—
 Netherlands, text, etc., 15354
 Trinidad and Tobago, 6300

Taxation—Continued
 economies of the tax bill (remarks), 16511
 employer's tax guide, 5765
 supplement, 9978
 farm real estate taxes, recent trends and developments, 8161
 farm real property, 1950-67, revised estimates, 11886
 Federal, legal careers in IRS, 17101
 Federal tax credits to States, advantages (remarks), 6329
 guide for U.S. citizens abroad, 2019
 House-passed tax bills pending before Committee on Finance, Senate, July 18, 1967, summary, 466
 income averaging, tax reform hearings, summary of testimony, 10810
 interest equalization tax, temporary extension—
 law, 15213
 report, 13997
 Internal Revenue Service tax information publications, 1968-69, list, 2409
 liquidations, 12-month, nonrecognition of gain or loss on sales, reports, 453, 1694
 minimum and maximum taxes, tax reform hearings, summary of testimony, 15344
 multiple corporations, tax reform hearings, summary of testimony, 10811
 multiple trusts, tax reform hearings, summary of testimony, 10812
 mutual fund distributions, tax information, 4420
 mutual savings institutions, tax reform hearings, summary of testimony, 10813
 oil and gas industry, economic factors affecting level of domestic petroleum reserves, 12244
 our Federal tax system, 8435
 past and prologue in tax policy (remarks), 2527
 press release, revised, concerning public hearings to be conducted on subject of tax reform, 7981
 property assessment ratio studies, 12019
 quarterly tax reports, 5230, 15120
 real estate accelerated depreciation, tax reform hearings, summary of testimony, 10815
 recordkeeping requirements, 4416
 self-employed individuals, retirement plans, 4417
 single persons and married couples, tax reform hearings, summary of testimony, 15348
 small business, 1969 tax guide, 4418
 sponsors of contests and sporting events, tax information, 5778
 State and local taxes, national banks, clarify liability, hearing, 9339
 State tax collections, 1968 report, 1623
 State taxation of national banks, provide uniform rule, reports, 10718, 12165
 States, interstate taxation act, reports, 10710, 10726
 tax adjustment act of 1968, amendments, summary, 432
 tax assistance for housing, its implications for Federal tax structure and Federal budget (remarks), 1481
 tax calendar and check list, 8441
 tax depreciation and need for reserve ratio test, 2532
 tax information—
 cost or other basis of assets, 8447
 foreign scholars and educational and exchange visitors, 8430
 sale of business, 8450
 scholarships and fellowships, 8451
 selling your home, 8452
 tax policy (remarks), 16515
 tax policy research studies, 2532
 tax publications, guide, 4416
 tax reform—
 hearings, 10809

Taxation—Continued

- tax reform—continued
 - subjects, press release announcing tentative decisions, 9376, 13945
 - testimony at public hearings, summary, 9377
- Tax reform act of 1969—
 - decisions reached in Executive session, compilation, 16883
 - development, etc. (remarks), 14950
 - effective date provisions, 16830
 - reports, 12200, 15242
 - print additional copies, report, 15247
 - revised summary list and brief description, 13946
 - statement of David M. Kennedy, Secretary of Treasury, 14029
 - summary, 12295
 - report, 15338
 - supplemental report, 12201
 - print additional copies, report, 15248
 - technical memorandum of Treasury position, 15448
 - testimony, 14030
 - testimony and additional statements, 14027-28, 15434-47
 - summary public hearings, 16831
 - Treasury Department statements and recommendations, hearings, 15449
- tax reform and economic policy (remarks), 17428
- tax reform hearings—
 - charitable contributions, tax treatment, written statements of witnesses, 7984
 - foreign tax credit and deferred executive compensation tax treatment, written statement of witnesses, 7986
 - gasoline taxes and moving expenses, written statements of witnesses, 7984
 - individual deductions, summary of problems, 7988
 - minimum and maximum taxes—
 - allocation of deduction, taxes for the elderly, etc., summary of problems, 7989
 - on individuals and single persons, written statements of witnesses, 7984
 - State and municipal bonds, tax treatment, written statements of witnesses, 7985
 - tax-exempt organizations, summary of problems, 7990
 - tax treatment of the elderly, written statements of witnesses, 7984
- tax reform hearings, testimony, summary—
 - allocation of deductions, 15339
- bad debt reserves of commercial banks, 15340
- capital gains, 15341
- deductions, farm losses, moving expenses, and gasoline taxes, 10814
- deferred executive compensation, 15342
- depletable resources, 15343
- extension of surcharge and repeal of investment credit, 15350
- income averaging, 10810
- minimum and maximum taxes, 15344
- multiple corporations, 10811
- multiple trusts, 10812
- mutual savings institutions, 10813
- real estate accelerated depreciation, 10815
- standard deduction, 15345
- State and local bond interest, 15347
- subchapter S corporations, 15346
- tax-exempt organization, 9377
- taxation of single persons and married couples, 15348
- treatment of—
 - elderly, 10816
- tax depreciation by regulatory agencies, 15349
- tax reform legislation—
 - in 1969 (remarks), 17429
- message from the President, 7855

Taxation—Continued

- tax reform studies and proposals, Treasury Department, 4006, 5327, 7982-83, 12244
 - summary, 8060
 - tax surcharge extension, 15350
- tax treatment of the elderly—
 - digest of testimony and statements, 1715
 - tax reform hearings, summary of testimony, 10816
- unemployment tax, collection to be in quarterly installments, etc.—
 - law, 15201
 - reports, 7889, 10876, 15239
- value-added tax for United States, negative view (remarks), 2533
- see also Employment taxes—Excise taxes—Income tax—Inheritance and transfer tax—Internal revenue—Revenue—Tax exemption—Tax refunds—Withholding tax—also names of articles, etc., subject to tax.
- Taxes, see Employment tax—Income tax—Taxation.
- Taxicab drivers, employment outlook, taxi drivers, 4500
- Taxiways (aeronautics):
 - taxiway centerline lighting system, 5598
- three-track runway and taxiway profiles measured at international airports A and B, 16187
- Taxonomy—
 - larval, of Troginae in North America, 2313
 - zoological taxa of William Healey Dall, 1205
- Taylor, Charles R., jr., flight test results of trailing edge flap designed for direct-lift control, 17201
- Taylor, David C.:
 - soil survey—
 - Pike County, Pa., 11677
 - Westmoreland County, Pa., 4944
- Taylor, Earl G., study of food distribution facilities for Cincinnati, Ohio, 43
- Taylor, Eleanor K., administrative approaches to staff development in Public Welfare agencies, 1384
- Taylor, George W., energy control for microwave amplifier arrays, 1567
- Taylor, H. Ralph:
 - remarks—
 - Oct. 14, 1968, 765
 - Nov. 22, 1968, 1993
- Taylor, Hannibal B., relief, 13882
- Taylor, James H., airman, official magazine of Air Force, 2581
- Taylor, Jeanne A., protect your future, 6234
- Taylor, John K., Microchemical Analysis Section, summary of activities, 16233
- Taylor, Lawrence W., jr., fixed-base simulator pilot rating surveys for predicting lateral-directional handling qualities and pilot rating variability, 14615
- Taylor, Ruth E., guide for social services in nursing homes and related facilities, 6180
- Taylor, V. Ray, monthly and seasonal mean global charts of brightness from ESSA 3 and ESSA 5 digitized pictures, 1838
- Taylor Slough, Everglades National Park, Fla., effects on mineralized artesian water on fresh-water biota, 15795
- TDL, see Techniques Development Laboratory.
- Tea:
 - foreign agriculture circulars, 2902
 - trade and tariff information, summaries, 10431
- Teacher Corps, futures in education, 5542
- Teachers:
 - Cincinnati police-juvenile attitude project, a demonstration project in police-teacher curriculum development to improve police-juvenile relations, 872
 - creative developments in training of educational personnel, 9649

Teachers—Continued
 drug abuse education workshop, how to plan, 16347
 elementary—
 behavioral science education program, final report, 8163
 competency based, field centered, systems approach to education, 4163
 Georgia educational model specifications for preparation, 4172
 preparation, model program, 1812
 specifications for comprehensive—
 elementary teacher education programs, 5540
 undergraduate and inservice teacher program, 588
 teacher training models, 9 program models submitted to Education Office, 16957
 employment outlook, 4559
 Job Corps, and guidance counselor, examination announcement, 5272
 amendment, 12038
 junior college teachers of science, engineering, and technology, 1967, experience and employment characteristics, 6098
 model elementary teacher education program, final report, 5547
 Project Headstart, daily program, manual for teachers, 563
 public schools, fall 1968, statistics, 9652
 opportunities abroad for teachers, teaching, seminars, exchange, 15642
 space resources course, space science, guide outlining understandings, fundamental concepts, and activities, 17213
 teacher-innovator, program to prepare teachers, 5557
 Teaching:
 academic freedom protective act of 1969, hearing, 14051
 conservation teaching aid (series), 14294
 instructional materials, ESEA, title 2, annual report, 6866
 printed and published instructional materials, 9 elementary school media centers, 3 inner cities, descriptive case studies, 10976
 teacher-innovator program to prepare teachers, 5557
 training, individualization of instruction, educational model, 1813
 see also Lecture method in teaching—*also* subjects taught.
 Teamwork, team interpretation procedures, selection of teammates and role assignment, 13664
 Technical aids for small manufacturers, 7453, 10360, 11661
 Technical assistance:
 EDA program, what it is, how to apply, 12393, 16942
 federally supported, state community development, report, handbook, 17061
 STAP, special technical assistance program, 1967-68, 1st year—
 activity report, 5524
 evaluation, 6853
 what is STAP? 5523
 see also Foreign aid.
 Technical assistant, examination announcement, 16694
 Technical bulletins:
 Agriculture Department, 3673, 5067-68, 6401, 8993, 10502, 11887, 13608, 15007
 Land Management Bureau, 5917, 17161
 Technical cooperation, *see* Foreign aid.
 Technical data, *see* Technical information.
 Technical education:
 annual report, 15644
 job opportunities that may be open to applicants, technical institute, or other specialized training usually required, 4609
 technical education program series, 4178

Technical education—Continued
 vocational-technical education program—
 development for person with special needs by States, under Vocational education act of 1963, progress report, 6895
 of Education Office, 5017
 Technical information:
 activities in foreign countries (talk), 7446
 Army holdings and services, directory, 9060
 DSA authorized data list manual, 16911
 technical information for Congress, 12149
 committee print, 7975
 reprint, report, 10758
 Technical instruments, import trends, 1958-67, analysis, 13731
 Technical manuals:
 Army Department, 174-179, 1582, 3776-81, 13661-663, 5123-27, 6441-45, 7665-67, 9051, 10551-552, 11947-948, 15052-53, 16598-601
 Army Strategic Communications Command, 5109
 ESSA Research Laboratories, 1831
 technical inspection manual, quality control chart technique, 16309
 see also names of departments etc., issuing technical manuals.
 Technical memorandums:
 Civil Defense Office, 10621
 Coastal Engineering Research Center, 4198, 6905, 10995, 14149, 15648
 Environmental Science Services Administration, 611-14, 6911, 11022-24, 14163, 15673, 16971-972
 Technical news bulletin, National Bureau of Standards, 3492
 Technical news from Department of Commerce, National Bureau of Standards, 3493
 Technical notes:
 Census Bureau, 10612
 Environmental Technical Applications Center, 9004, 10520, 13620, 16568
 National Aeronautics and Space Administration, 1046-1144, 2215-69, 4699-4750, 5990-6022, 7249-7306, 8609-53, 10103-153, 11433-498, 13066-139, 14602-649, 17217-253
 National Bureau of Standards, 1179-81, 2296-97, 4765-69, 6050-53, 7324-29, 8671-72, 10177-181, 11523-526, 13159-161, 14672-675, 16227-234, 17265
 Technical papers:
 Census Bureau, 3863, 12021, 13775
 Sport Fisheries and Wildlife Bureau, 6258, 7475, 10400-401, 13467, 17397
 Technical progress reviews, 3913, 3208, 3364-65
 Technical record of design and construction, Merritt Dam, 4911
 Technical reports:
 Air Force Human Resources Laboratory, 3675-77, 5069, 6402-3, 8996-98, 10504-512, 11888-891, 16560-561
 Air Weather Service, 3688, 5081, 13618
 Army Aviation Materiel Laboratories, 180-182, 1583-91, 3782-85, 5129-31, 6450-61, 7668-71, 9053-59, 10553-555, 11950-957, 13669-677, 15058, 16602
 Army Engineer Division, North Pacific, 5569
 Civil Defense Office, 265-268, 3871, 9178, 10622, 13783, 15133, 16677
 Cold Regions Research and Engineering Laboratory, 135, 1577, 3747-50, 7650, 13653, 15039, 15651
 Environmental Science Services Administration, 615-16, 1832-38, 4216-17, 5577-79, 6912-21, 8187, 9720-21, 9722-27, 11025-28, 12566-573, 14164-171, 15674-675, 16973
 highway planning, 7435-36, 10342-344, 11616-647, 14814, 16387
 Natick Laboratories, 3757-62, 7655-57, 13657

Technical reports—Continued

- National Aeronautics and Space Administration, 1145-48, 4751-56, 6023-26, 7307, 8654-57, 10154-157, 11499-501, 13140-141, 16203-206, 17254
- National Resource Evaluation Center, 5560
- Naval Oceanographic Office, 4824, 13267-269
- Naval Training Device Center, 1255-56, 2348, 6134, 7378
- Ohio River Division Laboratories, 600-601, 1821
- Personnel Research Laboratory, 79, 3690, 9005
- quality and reliability assurance, 557
- School of Aerospace Medicine, 82-105, 1540-50, 3691-3717, 5083-84, 6416-21, 7635, 9006-11, 10525-533, 11900-906, 13628-633, 15017-21, 16572-575
- shellfish sanitation, 6204
- Waterways Experiment Station, 605-608, 1827-29, 4215, 5572-74, 6908-10, 8185-86, 9716-17, 11015-18, 12558, 14153-156, 15667-668, 16969
- Technical research notes, Behavioral Science Research Laboratory, 6446-49, 9052, 13664-668
- Technical services:
 - examination announcement, amendment, 5246
 - State designated agencies, officials and working contacts, list, 3078
- Technical terms of meat industry, 6816
- Technical translation, National Aeronautics and Space Administration, 1149, 2270, 4757-59, 6026, 8658, 10158-163, 11502-506, 13142-150, 14650-652, 16207-210, 17255-256
- Technicians:
 - Air Force, scientific and technical officers, improvement of procurement utilization, and retention of high quality, 79
 - Army National Guard—
 - civilian personnel, manning criteria, 7338
 - manning criteria, 1184
 - criteria for technician education, suggested guide, 1804
 - engineering—
 - and science, employment outlook, 4560
 - pay, national survey, 4597
 - Federal Government, 1967, technical personnel, 17296
 - from other countries, intern-training opportunities provided by U.S. Geological Survey, 14341
 - job market, 14146
 - National Guard, civilian personnel, technician performance rating plan, 10186
 - pay, 1968, in New York State, 11355
 - science and engineering, opportunities as technical aids, examination announcement, 15145
 - scientific and technical personnel in industry, 5897
 - senior level positions, examination announcement, 5252
 - women in technical positions, fact sheet, 5006
 - see also Agricultural research technicians—Biological laboratory technicians—Physiological technicians—Radio broadcast technicians—X-ray technicians.
- Technique for location of buried sand and gravel deposits in shallow-water areas, 13246
- Technique to infer atmospheric temperature from horizon radiance profiles, 6015
- Techniques Development Laboratory, ESSA technical memorandum, WBTM TDL series, 16972
- Techniques of scheme study, 11597
- Technological Laboratory, Seattle, Wash., guide, 12072
- Technologists, see Medical technologists.

Technology:

- AEC NASA technology survey (series), 7246
- aerospace related technology for industry, conference proceedings, 13062
- aliens employed in scientific or technical capacity by Secretary of Commerce, report, 10857
- Army Materiel Command, manufacturing methods and technology, 5-year program, 173
- assessment—
 - of Vietnam defoliant matter, case history, 15331
 - study, report, 16824
- charge for new technology (remarks), 8413
- clean rooms, contamination control, 13061
- Clearinghouse announcements in science and technology, 2661
- criteria for technician education, suggested guide, 1804
- dynamics of technology and society, no compromise with ignorance (address), 16955
- ESSA research Laboratories publications, list, 14177
- exchanges, agreement with Union of Soviet Socialist Republics, 2497
- higher education, research (remarks), 200
- Institutes for Environmental Research publications, list, 14173
- instructional systems and technology, introduction to field and use in Federal training, 12056
- junior college teachers, 1967, experience and employment characteristics, 6098
- Latvia's future scanned, 15917
- modern, and human personality, USSR articles, 5865
- MOS field-effect-transistor technology, 996
- NASA scientific and technical information system, and how to use it, 16147
- neutron cross sections, conference proceedings, errata, 1178
- new technology—
 - and American economy, report, 3891
 - reporting to NASA, documentation guidelines, 11400
- nuclear standards for industry, science, government and consumer, symposium, proceedings, 7322
- ocean resource potentials, national marine program Marine Science, Engineering and Resources Commission panel reports, 10285
- Panel on Science and Technology, 10th meeting—
 - papers, 9371
 - proceedings, 6730, 12148
 - reprint, report, 10757
- policy issues, review and forecast, 4002
- pollution abatement—
 - congressional white paper, 418
 - report, 3999
- processes of assessment and choice, panel report, 13941
- radio frequency interference experiment design for applications technology satellite, 11438
- reactor development and technology program, AEC, authorizing legislation, 1970, hearings, 9243
- science and technology and the cities, Panel on Science and Technology, 10th meeting—
 - papers, 9371
 - proceedings, 6730, 12148
 - reprint, report, 10757
- science, technology and the citizen (remarks), 13723
- science, technology, and public policy, government-science relationships during 90th Congress, 1st and 2d sessions, 15330

Technology—Continued
 scientific and technical progress, USSR long-range forecasting, 12938
 scientific-technical progress tempo reviewed, USSR, 15976
 scientific-technical revolutions, USSR comments, 15955
 selected technology for electric power industry, conference proceedings, 1043
 socialism speeds scientific and technical progress, USSR study, 15983
 Soviet prizes, 15909
 State technical services, helping business and industry 6544
 systems, applied to social and community problems, 16894
 technical reports, prepared by or for Federal government, format standards, guidelines, 1861
 technical standards training guides, 15709
 technical translation, USSR bilingualistic study, 17125
 toward a liveable man-made world (address), 7807
 training systems and technology series, 12056, 13793
 utilization (series), 2212, 8608, 1010, 13061
 USSR, 1968 state prizes, roster of recipients, 5874
see also Space technology—*also* subjects.
Technology and Human Environment, Select Committee on, Senate, establish, hearings, 9464
Tectonics:
 Alaska earthquake, 1964, effects on shore processes and beach morphology effects of tectonic uplift and subsidence along 10,000 miles of shoreline, and practical meaning of those effects, 1967
 North America, discussion to accompany tectonic map, 9903
 structure, effect on occurrence of ground water in basalt of Columbia River Group of the Dalles area, Oreg. and Wash., 11243
 Teegarden, Dennis E., economic guides for Douglas-fir reforestation in southwestern Oregon, 5917
 Teenagers, *see* Youth.
Teeth:
 ascorbic acid supplementation effect on tooth mobility, 3711
 barnacle cement as dental restorative adhesive, 1185
 dental health—
 Federal financial aid, guide, 10191
 in community care programs, small fry smiles, guide for teaching, 14696
 denture bases, fluid resin technic of processing, 1538
 denture identification, 1539
 enamel solubility reduction by stannous hexa-fluoroarsenate, 15017
 laboratory testing of silver amalgam restorative material with stannous fluoride, 10529
 panoramic survey of basic airmen, 11905
 personal factors in dental disease prevention, test to measure dental health knowledge, 16067
 tooth enamel, solubility, during FBM patrol, in vivo assessment, 923
 use of Snyder's caries activity test in oral hygiene effectiveness monitoring, 5930
see also Dentistry.
 Telchener, Warren H., predicting human performance in space environments, 13041
 Telchispira, new Early Ordovician gastropod genus, 4367
Telecasting:
 fairness doctrine of FCC—
 legislative history, staff study, 6721
 report, 9304

Telecommunication:
 code of Federal regulations, 8230-31, 9818, 12634
 engineering, installation practices, CCTM technical manual, 5109
 facility on Norfolk Island to study ionospheric propagation in relation to long range radio paths, agreement with Australia, 8889, 16472
 Federal role in telecommunications (address), 10642
 pre-sunrise operation of certain standard (AM) radio broadcasting stations, agreement with Canada, 7508
 systems, high-frequency sky-wave, long-term operational parameters, predicting, 11027
see also Communications—*also* special method of communications.
Telecommunication Sciences, Institute for, *see* Institute for Telecommunication Sciences.
Telecommunications Management Office, appropriations, 1970, hearings, 9332
Telegraph:
 carriers, quarterly operating data, 3357
 franks, FCC rules and regulations 2837, 9749
 radiotelegraph carriers, uniform system of accounts, FCC rules and regulations, 1860, 2836
 wire, classification of employees, FCC rules and regulations, 2837, 9749
 wire-telegraph and ocean-cable carriers, uniform system of accounts, FCC rules and regulations, 1860, 2836
Telemechanics, automation and telemechanics, translations, USSR study, 15953
Telemetric automated microbial identification system, *see* Telemetry.
Telemetry:
 NMFRL telemetry system, development, 2d report, 14513
 NRL SOLRAD 9 satellite, Solar Explorer B, 1968-17A program, 13283
 self-synchronizing bi-orthogonal coded PCM system, 1146
 telemetric automated microbial identification system (TAMIS) and subsystems, 80
Teleoperator controls, 7246
Telephone:
 carriers, quarterly operating data, 3356
 companies—
 class A and class B, classification and compensation of employees FCC rules and regulations, 2837
 consolidation, acquisition or control applications, FCC rules and regulations, 2837, 9749
 employees, occupational classification and compensation, FCC rules and regulations, 9749
 jurisdictional separations, FCC rules and regulations, 9749
 uniform system of accounts, FCC rules and regulations, 2835
 directories—
 Agriculture Department, 62, 7618, 13609
 Atomic Energy Commission, 3819, 13724
 centrex telephone directory, State Department, International Development Agency, Arms Control and Disarmament Agency, 16462
 Commerce Department, 9214
 Defense Department, 2759
 Health, Education, and Welfare Department, 5729, 11255
 House of Representatives, 7836
 Interior Department, 807, 9977
 NASA headquarters, 3153
 Senate, 7992
 State Department, International Development Agency, Arms Control and Disarmament Agency, 6274

Telephone—Continued
 directories—continued
 Transportation Department, 2762
 Treasury Department, 3494
 excise tax rates—
 continue—
 hearings, 10895
 public hearings, 10808
 reports, 10739, 10742, 12270
 extension, amendments summary, 432
 franks, FCC rules and regulations, 2837, 9749
 materials acceptable on systems of REA
 borrowers, lists, 3076, 8842
 occupations, employment outlook, 4590
 rural program—
 statistical report, 4917
 supplemental financing—
 hearings, 6702
 report, 6688
 statistical bulletin, 3360
 Telephone carriers, annual statistics, 15698
 Telephone lines, extension, etc., FCC rules
 and regulations, 2837, 9749
 Telescopes:
 refractor, 26-inch—
 mechanical improvement, 10214
 optical properties, 10214
see also Radio telescopes.
 Television:
 broadcast actions, reports, 2826
 broadcast licenses, applications for re-
 newal, establish orderly procedures,
 hearings, 15428
 broadcasting, occupations, employment
 outlook, 4587
 broadcasting of advertising of cigarettes,
 prohibit—
 hearings, 9356-59
 reports, 10717, 10725
 broadcasting stations of world—
 amplitude modulation—
 indexed by country and city, 4291
 indexed by frequency, 4292
 indexed by country, city, frequency,
 4294
 can television really teach? 14130
 CATV—
 actions, reports, 2826
 new horizons, new challenges (address),
 11052
 requests filed under FCC rules, reports,
 2826
 cloud photography, meteorological satel-
 lite data—
 catalog, 6922
 ESSA 1, 617
 ESSA 3 and ESSA 5, 1839
 monthly and seasonal mean global
 charts of brightness from ESSA 3 and
 ESSA 5 digitized pictures, 1838
 crime and violence programing, FCC policy
 matters, review, hearings, 9453
 deceptive programing practices, report,
 5363
 educational facilities grants for construc-
 tion, authorization, extend, hearings,
 8058
 handbook for extension workers, you're on
 camera in color, 15002
 households with television sets in U.S.,
 current housing reports, 9123
 industrial TV developments, USSR study,
 2095
 marihuana, pot party at a university, de-
 ceptive programing practices, report,
 5363
 Martian experiment, requirements for
 three point-mass descent trajectories,
 4749
 Overmyer construction permits, acqui-
 sition and transfer—
 hearings, 7961-62
 report, 9303

Television—Continued
 programs, copyright, general information,
 10931
 public broadcasting act of 1967, amend—
 hearings, 10796
 reports, 8049, 15259
 receiving sets industry, 1958-66, indexes
 of out put per man-hour, 889
 satellite broadcasting, implications for
 foreign policy, hearings, 10785
 sets, current industrial reports, 12002
 survey of political broadcasting, 1966 pri-
 mary and general election campaigns,
 12605
 systems for planetary descent missions,
 analytical procedure for optimizing,
 4748
 trafficking in broadcast station licenses
 and construction permits—
 hearings, 7961-62
 report, 9303
 violence as expressed on television, char-
 acter analysis, 9451
 Television and Social Behavior, Scientific
 Advisory Committee on, *see* Scientific Ad-
 visory Committee on Television and Social
 Behavior.
 Television camera, *see* Camera.
 Television service technicians, employment
 outlook, 4561
 Telling it like it is, making it like it could
 be (remarks), 1608
 Temper tantrums (remarks), 9824
 Temperature:
 advanced high temperature combustor re-
 search for small gas turbine engines,
 final report, 3783
 application of pressurized liquid nitrogen
 inside parametric-amplifier structures
 for input-noise-temperature improve-
 ment, 17250
 atmospheric, technique to infer from
 horizon radiance profiles, 6015
 control, heat pipe devices for space suit,
 16127
 coupling of fracture mechanics and tran-
 sition temperature approaches to frac-
 ture safe design, 10270
 effect—
 cavitation damage to cobalt base alloy
 in sodium, 11478
 jet temperature on jet and pure tone
 noise radiation, 17211
 outdoor exposure at elevated tempera-
 ture on fatigue life of Ti-8Al-1Mo-1V
 titanium alloy and AM 350 stainless
 steel sheet, 13133
 projectile density and target tempera-
 ture when determining crater charac-
 teristics of metal alloys under hyper-
 velocity impact, 8627
 electron, determination, between 50 eV
 and 100 keV from X-ray continuum ra-
 diation in plasmas, 6139
 elevated—
 electrical resistivity of hyperstoichi-
 ometric columbium and zirconium car-
 bide materials, 14553
 mechanical behavior of tantalum-base
 T-111 alloy, 16143
 temperatures, elastic moduli of rock,
 11384
 error analysis of input-noise-temperature
 measurements of low-noise amplifiers,
 4727
 exploratory study of open-face honeycomb
 to reduce temperature of hypersonic air-
 craft structure, 11482
 extrusion temperature effects on proper-
 ties of zinc-copper-titanium alloy, 4649
 fatigue of notched Ti-8Al-1Mo-1V titanium
 alloy at room temperature and 550 F
 (560°) with flight-by-flight loading rep-
 resentative of supersonic transport,
 11486

Temperature—Continued

- fluid—
 - and cavitation damage, effect on performance of axial-flow pump in liquid sodium, 16202
 - effect on cavitation performance of high hub-tip ratio axial flow pump in water to 250° F (394K), 11493
- graphite filament-wound pressure vessels at ambient and cryogenic temperatures, tensile and cyclic fatigue properties, 13129
- high—
 - cesium vapor thyatrons, reduction of recovery time, 16133
 - chemistry and physics of materials, bibliographies, 6049, 10176, 16226
 - creep-rate data, for alloys of tantalum, molybdenum, and columbium, 16175
 - deformation of nickel, proposed model for effect of oxidation, 10153
 - mechanical properties of polycrystalline hafnium carbide and hafnium carbide containing 13-volume-percent hafnium diboride, 4735
 - oxidation protection of tungsten, 16210
 - plasma physics research, USSR study, 15984
 - radial turbine, design and evaluation, final report, phase 1, 9055
 - siloxane degradation, and effect of cerium-based inhibitor, hypothesis, 10268
 - studies, investigations of exploding wire process as source, 1174
 - superconductivity problems, USSR study, 15988
 - supersonic airstreams, evaluation of coated molybdenum and columbium alloys, 1100
 - use of tungsten-184 as thermal flux monitor, 7283
 - horizontal gradients, limb radiance calculation approach for model atmospheres, 17242
 - improvement of clear column radiance determination with supplementary 3.8u window channel, 14163
 - influence on coal-steam gasification reactions, 13027
 - interrelations between transit temperatures, biphenyl pad placement, biphenyl content, and fruit condition, overseas shipping tests of California citrus on pallets, and in containers, 16547
 - ionization equilibrium equation of state at stellar temperatures and densities, tables, 6142
 - liquidus, titaniferous slag, 4651
 - long-range forecast of temperature for 19 United States cities, 11663
 - measurement—
 - by use of small combination sensing probe, 1062
 - digital monitor for photorecording, 12699
 - rotational and vibrational, in 12-inch hypersonic ceramic-heated tunnel, 1110
 - Pacific Northwest, monthly, 3236
 - precision measurement and calibration, 6047
 - production of temperatures below 1°K by adiabatic demagnetization of cerium-barium metaphosphate (CBP) glass, 1255
 - profiles, mountain snow cover, 1918
 - pump cavitation performance for various liquids, liquid temperatures and rotative speeds, method for prediction, 13096
 - river temperatures, Pacific Northwest, 3399-3400
 - sea surface for Gulf of Mexico, fishermen's atlas, 3918
 - snowpack, shielded thermistor probe with portable instrument for measuring, 5672

Temperature—Continued

- soil temperatures under forest and grass-land cover types in northern New Mexico, 5670
- stratospheric temperature and moisture profiles, inference from observations of infrared horizon, 16135
- superficial thermal gradients, effect of 2-dimensional topography, 12759
- surface—
 - and thermal properties, of seedbeds, guide for foresters, 12721
 - of paraboloidal solar concentrators in space, parametric analysis, 8628
 - temperature mapping with infrared photographic pyrometry for turbine cooling investigations, 10121
- temperature and electrolyte concentration, effects on performance of fuel cell of Bacon type, 8634
- temperatures of space-raft orbiting the planets or the moon, computer program for calculating, 6023
- thermal gradient effects on 13 flush mounted pressure transducers, 14674
- thermal pollution effects on river ice conditions, simple method of calculation, 15649
- thermal stability and friction of diselenides ditellurides and disulfides of tungsten in vacuum (10^{-9} to 10^{-6} torr), 10110
- thermocouple technique for measuring hot-gas-side wall temperatures in rocket engines, 13095
- transit, effects on market quality of lettuce shipped in nitrogen-refrigerated and mechanically refrigerated trailers, 3647
- transition temperature factors relating to fracture-safe design for structural steels, integration of metallurgical and fracture mechanics concepts, 13399
- water and aqueous solutions at high pressures and temperatures, properties, 806; see also Heat—Heat transfer—Ocean temperature.
- Temperature indicators, remote detection of earth resources in sub-arid lands, 2215
- Ten Mile River, pollution of interstate waters conference, proceedings, 1895
- Tennille Creek:
 - flood plain information, 12479
 - floods, how to avoid damages, 12540
- Tenants, see Landlords and tenants.
- Tennent, R. C., hydraulic analysis of pipe-arch culverts, 4905
- Tenn see:
- Agricultural Stabilization and Conservation Service—
 - activity summary, 11848
 - annual report, 11817
- census of business, 1967, retail trade, area statistics, 13750
- climatological data, 2662
- dealers in trout and pondfishes, list, 13449
- eastern—
 - Clinch River—
 - distribution of radionuclides in bottom sediment, 7050
 - inventory of radionuclides in bottom sediment, 11244
 - radioactive waste dilution, 1964
 - electric rate book, 15724
 - Federal outlays, report of Federal Government's impact by State and county, 9574, 9623
 - forest industry opportunities, 6322
 - land conveyance to—
 - law, 15205
 - reports, 10724, 12265
 - loblolly pines in plantations on abandoned fields, volume tables and point-sampling factors, 8313
 - mineral industry, minerals yearbook chapter, 4628

- Tennessee—Continued
 postal map, 11596
 potential development of central Appalachia, preliminary analysis, 13659
 precipitation data, hourly, 2962
 shortleaf pines in plantations on abandoned fields, volume tables and point-sampling factors, 8317
 southern Blue Ridge area, soil survey interpretations, 17391
 uranium reconnaissance, preliminary, 13712
 water resources development by Army Corps of Engineers, 9714
 zinc district, mercury and other trace elements in sphalerite and wallrock ore deposits, 1957
- Tennessee National Wildlife Refuge, birds, list, 8870
- Tennessee River and Valley:
 basins, probable maximum and TVA precipitation, 17438
 dams and steam plants, visitors are welcome, 2517
 forest industry manpower training in region, 7545, 17418
 laminated beams and arches, production opportunities, 1474
 precipitation in basin, monthly, 3264
 private forest management in Tennessee Valley, 11747
 production opportunities, educational wooden toys, 11740
 quality environment in Tennessee Valley, 16501
 trees for a better tomorrow, 11748
- Tennessee Valley Authority:
 annual report, 2513
 appropriations, 1970—
 hearings, 12204
 report, 15298
 dams and steam plants, visitors are welcome, 2517
 electricity sales statistics, retail distribution, 2790
 financial statements, 2514
 GAO examinations, 7030, 7847
 fish and fishing around TVA steam plants, 14942
 forestry bulletins, 2515, 6323, 11741-743, 16498
 forestry, publications, lists, 8915, 16500
 Health and Safety Division, annual report, 13502
 industrial development in TVA area, 7547
 member, nomination of Aubrey J. Wagner, hearing, 12320
 power—
 annual reports, 1475, 2516, 16499
 municipal and cooperative distributors, 1968 operations, 2516
 press handbook, 13504
 TVA—
 fertilizer science for the Nation, 16502
 1968 programs, 6325
 precipitation, probable maximum for Tennessee River basins, 17438
- Tensas Parish, La., soil survey report, 2464
- Tensile strength, *see* Strains and stresses.
- Tension, heart rate and task performance, effects of cognitive appraisal of stress, 9088
see also Strains and stresses.
- Tent caterpillars, Great Basin tent caterpillars, New Mexico, life history, parasites, disease and defoliation, 695
- Tepee Creek quadrangle, Mont.-Wyo., geology, 12782
- Teren, Fred, optimal 3 dimensional launch vehicle trajectories with attitude and attitude rate constraints, 7287
- Terminal boards, Federal item identification guide, change, 15521
- Terminal instrument procedures, civil use of U.S. Government instrument approach procedure charts, 11038
- Terminals (transportation):
 air traffic control, changes, 108, 5088, 9015, 13643
 area planning, FAA handbook, 5592
 Eastern Air Lines' new terminal facility dedication (remarks), 16672
 fallout shelters in terminal buildings, 9739
 Ohio River, location, etc., list, 9712-13
- Terminology, *see* subjects.
- Termites:
 nonsubterranean, control, 10479
 soil treatment, aid in control, 3642
 subterranean, prevention and control in buildings, 3638
- TERPS, *see* Terminal instrument procedures.
- Terrain:
 analysis of terrain bias error in planetary radar altimeters, 10136
 effects on antenna radiation patterns, analysis of scattered fields, 11026
 irregular—
 inhomogeneous, Loran-C, D phase corrections over, simplified computer methods, 12570
 propagation measurements in 76- to 9200-MHz range, analysis, 12569
 NRL terrain clutter study, 7381
- Terrazzo, workers, employment outlook, 4484
- Terrell County, Tex., geology of Comstock-Indian Wells area, 4364
- Terrestrial ecology, 9085
- Terrestrial impact structures, bibliography, 9890
- Terrestrial magnetism:
 earth's magnetic field on South Pole-Queen Maud Land Traverse 1, 6526
 geomagnetic data, International Indian Ocean Expedition, 1964. USC&GS ship Pioneer, 15151
 geomagnetic micropulsations, determining dimensions of subsolar magnetosphere according to data from terrestrial observations of, USSR study, 2096
 geomagnetic studies on 40th and 41st cruises of R/V (research vessel) Vityaz, equipment and methods used, 8513
 geomagnetic time, calculation, 11565
 grid values of total magnetic intensity, IGRF 1965, tables, etc., 12566
- Terrestrial radioactivity, *see* Radioactivity.
- Territories:
 health authorities, 1968, directory, 4876
 trusts and territories, Federal outlays, report of Federal Government's impact by State and county, 9625
 United States, territorial travel information offices, list, 14957
- Territories Office:
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
- Terrorism:
 student terrorist organizations, origins and objectives, The New Left study—
 memorandum, 9476
 print as Senate document, report, 9404
- Tertiary period:
 Cretaceous-Tertiary boundary in New Jersey, Delaware, and eastern Maryland, 5704
 rocks, Berkeley and San Leandro Hills, Calif., 5699
see also Gwandu formation.
- Teslas, superconductive 7.2-Tesla 4-magnet assembly, 17212
- Test chambers, portable clinical suction device for use in hyperbaric chambers, 16064
- Test equipment, *see* Testing apparatus.
- Test plan optimization for Explorer-size spacecraft, 13090
- Test wells, *see* Well drilling.
- Testimony, *see* Evidence.

Testing:

- controlled destructive testing of pressure vessels, 13286
- field test of weighted airman promotion system, phase 1, analysis of promotion board component in weighted factors system, 10512
- nondestructive, for void content in glass-filament-wound composites, 7382
- open-air testing of lethal chemicals, environmental dangers, hearings, 12221
- radium leak test, collection of articles, 13353
- testing standard for personnel parachutes, military standard, 14102
- United States Employment Service test, research reports, 594
- video tape recording of ultrasonic test information of ship construction, 2445
- see also* names of substances or objects tested.
- Testing apparatus:
 - electronic and electrical component parts, test methods, military standard, 9523
 - fabrication and testing of composite materials, aircraft wing section, 1588
 - San Diego test facility, 8423
 - test machine extensibility rigidity, effect on initial buckling load for unreinforced circular cylindrical shells in axial compression, 13670
 - tools, fixtures and test equipment for flat conductor cables, compilation, 2213
- Testing machines, *see* Testing apparatus.
- Testosterone, urinary, determination by utilizing column and gas-liquid chromatography, 3714
- Tests, *see* Examinations—*also* types and names of tests, e.g., Coordinations tests.
- Tetanus, immunity in USSR population, 15957
- Teton National Forest, Teton Wilderness, general information, 8323
- Teton Wilderness, general information, 8323
- Tetraethoxysilane, pyrolytic decomposition studies of tetraethoxysilane for obtaining high-grade SiO₂ films, 3739
- Tetrafluoromethane, use, to simulate real gas effects on hypersonic aerodynamics of blunt vehicles, 11499
- Tetrodotoxin, effect on electric activity and contractions of myocardial cells, USSR study, 11318
- Teuthoidea, illustrated key to families of order Teuthoidea (Cephalopoda), 13425
- Texas:
 - Agricultural Stabilization and Conservation Service, annual statistical reports, 11849-850
 - census of business, 1967, retail trade area statistics, 13751
 - climate, 12560
 - climatological data, 2662
 - cooperative muskmelon breeding program, etc., 11887
 - cotton varieties planted in early producing section, 9499
 - electric rate book, 11075
 - Federal outlays, report of Federal Government's impact by State and county, 9575, 9624
 - Gulf Coast, hurricane surge frequency estimated, 10995
 - landings, fish and shellfish, 3495
 - mineral industry, minerals yearbook chapter, 4629
 - postal map—
 - eastern section, 17326
 - western section, 16332
 - precipitation data, hourly, 2962
 - soil and water conservation, 14873
 - southern—
 - Coastal Plain and Blackbelt areas, soil survey interpretations for woodlands, 16440
 - Spanish-surname farm operators, 9641

Texas—Continued

- surface, water stations, index, 12776
- water resources data, 9921-23, 12793-794
- west—
 - cotton gin operating costs, 44, 6386
 - economics of desalting brackish waters for regional, municipal, and industrial water supply, 2005
 - Permian brachiopods, 14859
- Texas and Pacific Ry., accident, report, 9793
- Textbooks:
 - ESEA, title 2, annual report, 6866
 - 9 elementary school media centers, 3 inner cities, descriptive case studies, 10976
 - production, special fund, agreement, with Philippines, 1448
- Textile fibers, *see* Fibers.
- Textile machinery:
 - Kennedy round, special report, 5801
 - 1964-68 trends, 15088
- Textiles:
 - broadwoven goods, summary of looms in place, Dec. 31, 1968, current industrial reports, 9125
 - consumer information, publications, price list, 4868
 - cotton broadwoven fabrics—
 - average weight and width of fabrics, current industrial reports, 3841
 - current industrial reports, 3842-43
 - fabricated textile products industry in Puerto Rico data pertinent to review of minimum wage rates, 11774
 - fabrics—
 - imperfections, glossary, Federal standard, 659
 - trade and tariff information, summaries, 1461
 - Federal item identification guides for supply cataloging, supplements, 2849
 - flammable clothing, dangers, 13336
 - import problem, our need is so great, our objective so reasonable, our resolve so determined (remarks), 15166
 - industry in Puerto Rico, data pertinent to review of minimum wage rates, 13530
 - labor in textile and apparel industries, 16025
 - manmade fiber broadwoven goods—
 - average weight and width of fabrics, current industrial reports, 3850
 - current industrial reports, 2733, 3851, 6498, 12003
 - our need is so great, our objective so reasonable, our resolve so determined (remarks), 13807
 - problem area for exports and imports (address), 16710
 - products, trade and tariff information, summaries, 1461, 10432
 - synthetic, 1965, employee compensation and payroll hours, 12963
 - test methods, Federal standards, 8259
 - trade problems (address), 6538
 - U.S. textile/apparel exports, foreign regulations affecting, 13726
 - webbing, color codes, manufacturers' identification, military standard, 14111
 - wool, broadwoven goods, current industrial reports, 2733, 3859
 - woven fabrics, current industrial reports, 2732, 12008
 - see also* names of textiles.
- Thackray, Richard L., effects of cognitive appraisal of stress on heart rate and task performance, 9088
- Thailand:
 - Army area handbook, 169
 - background notes, 11694
 - climatological bibliography, 9004
 - Coast Guard operations and installations, Congressional investigation, report, 410
 - economic trends and their implications for United States, 5797, 15883
 - foreign trade regulations, 7802

- Thailand—Continued
 - military building program, problems in administration, GAO report, 11222
 - mineral industry, minerals yearbook chapter, 13020
 - Nam Ngum development fund, agreement, 11714
 - northeastern, mineral investigations, 12781
 - records of Dept. of State, pamphlet accompanying microcopy—
 - internal affairs, 6033
 - political relations, 10170
 - U.S. construction activities, 1966-67, GAO report, 1952
- Thalgott, R. H., operational safety aspects of Project Gasbuggy, 7700
- Thanksgiving 1966 air pollution episode in Eastern United States, 1341
- Thatcher, John W.:
 - iron and steel, 942
 - scrap, 17177
 - silicon, 17192
 - slag-iron and steel, 14561
- Thayer, Louis M., nomination, hearings, 1737
- Theater of operations, *see* Combat areas.
- Theobald, P. K., jr., platinum and associated elements at New Rambler mine and vicinity, Albany and Carbon Counties, Wyo., 1962
- Theodore, Nicholas G., nomination, hearing, 9450
- Theodore Roosevelt Island, general information, 8735
- Theory and design of ejection-type atomizer, 5820
- Theory of waves approaching exact solutions in nonlinear electrodynamics and optics, 16609
- Therapeutics, *see* Chemotherapy.
- Therapists, *see* Occupational therapists—Physical therapists.
- Thermocouples, technique for measuring hot-gas-side wall temperatures in rocket engines, 13095
- Thermal analysis, *see* Heat.
- Thermal conductivity, *see* Heat transfer.
- Thermal cycling, *see* Cycling.
- Thermal electromotive force change for 87Pt 13Rh/Pt thermocouples in 1530K, 10-8 torr environment for 3700 hours, 11485
- Thermal energy, integrated life support system for aerospace application utilizing radioisotopes for thermal energy, design study, 3799
- Thermal environment, *see* Environment.
- Thermal expansion, *see* Expansion (thermal).
- Thermal evaluation of polyvinylchloride exposure suit (Empress) and comparison with present submarine deck exposure suit, 920
- Thermal gradients, *see* Temperature.
- Thermal instability in layer of water formed by melting ice from below, 7648
- Thermal insulation, *see* Insulation.
- Thermal neutrons:
 - absorption cross sections empirical approach, 2359
 - flux, perturbation effects in cylinders, predictive equations, 2249
 - thermal flux monitor at high temperatures, use of tungsten-184, 7283
- Thermal pollution, *see* Water pollution.
- Thermal properties:
 - and surface temperatures of seedbeds, guide for foresters, 12721
 - ceramics, proceedings of symposium, 8668
 - comprehensive program for compilation and analysis of thermal radiative properties data, 16138
 - on phenomenon of thermoelastic instability (thermal flutter) of booms with open cross section, 11456
- Thermal properties—Continued
 - thermal fatigue cracking and oxidation of nickel- and cobalt-base alloys in high velocity gas stream, 14624
 - thermo-oxidatively stable Pyrrone laminates, experimental feasibility study for preparation, 13052
 - Thermal protection, cryogenic tanks in space, experimental studies on shadow shields, 1106
 - Thermal radiation:
 - balloon-type enclosures for thermal control of satellites, experimental and analytical investigation, 11458
 - black coatings characteristics, effects of simulated space environment, errata, 1046
 - external thermal-radiation heat loads and temperatures of spacecraft orbiting the planets or the moon, computer program for calculating, 6023
 - heat transfer—
 - exchange between surfaces and in enclosures, 10096
 - in blackbody, electromagnetic theory, and material properties, errata, 14595
 - uranium used as feed for thermal power reactors, effect of uranium-236 and neptunium-237 on value, 189
 - Thermal reactors, *see* Reactors (atomic).
 - Thermal shock:
 - and cyclic heating, effects on hafnia stabilized with calcia, magnesia, and yttria, 14607
 - shock-heated air flight measurement of optical radiation from, by using a Trailblazer II vehicle, 2242
 - Thermal stability, *see* Stability.
 - Thermionic converters:
 - with chloride vapor deposited tungsten emitter (110) and nickel collector, characteristics, 14587
 - with fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
 - Thermionic diodes, nuclear thermionic space power system concept employing heat pipes and rod control, 10152
 - Thermistors, shielded thermistor probe with portable instrument for measuring snow-pack temperatures, 5672
 - Thermocouples:
 - NASA contributions to development of special-purpose, survey, correction sheet, 4696
 - thermal electromotive force change for 87Pt 13Rh/PT thermocouples in 1530K, 10-8 torr environment for 3700 hours, 11485
 - Thermodynamics:
 - compressed gas handbook, 10098
 - ferrie sulfate and indium sulfate, data, 11393
 - prediction of thermodynamic effects of developed cavitation based on liquid-hydrogen and freon-114 data in scaled venturists, 1116
 - properties of—
 - argon from triple point to 300K at pressures to 1000 atmospheres, 6045
 - chemical, selected values, tables, etc., elements 35 through 53 and compounds, 10177
 - gases at high temperatures and densities with numerical results for hydrogen, 2352
 - liquid H₂O and D₂O and their mixtures, 10138
 - water to 1,000°C and 10,000 bars, S418
 - thermodynamic properties of nitrogen and helium, and real-gas effects in critical flow thru nozzles, 4695
 - errata, 16149

- Thermodynamics—Continued
use of thermodynamic properties of metal-gas systems as reduced pressure standards, 4683
see also Heat.
- Thermoluminescence, *see* Luminescence.
- Thermomagnetic effects, galvanomagnetic and thermomagnetic effects in white tin in fields to 3.3 tesla and at temperatures between 1.2 and 4.2 K, 10142
- Thermometers, precision of quartz crystal and mercury differential thermometers in heat-of-hydration test, 15665
- Thermonuclear reactions, *see* Nuclear reactions.
- Thermostructural panels, *see* Panels and paneling.
- Thesauruses, ERIC descriptors, 9661
- Theses, *see* Dissertations.
- Theta-pinch, *see* Plasma.
- They said it couldn't be done (address), 10577
- Thi Huong Nguyen, *see* Nguyen Thi Huong (Linh).
- Thin films:
thin film iris, 11414
thin-liquid-film membrane unit for desalination by reverse osmosis, development, 9962
ultrathin films and cellulose acetate membranes for reverse osmosis, characterization, 15860
- Things could be worse, we could be hung up on drugs!, 9026
- Thinning of forests, *see* Forest thinning.
- Thiocyanates, salivary thiocyanate secretion during fleet ballistic missile submarine patrol, study, 8578
- The third wave, 5756
- Thirsty Canyon, geologic data for U20u satellite holes #1, #2, #3, and #4, and studies of orientation of joints in Thirsty Canyon Tuff, area 20, Pahute Mesa, Nevada test site, 9896
- Thiruvengadam, A., multiple liquid impact erosion, 5982
- This changing world, reading guide for the General Sessions, 7491
- This is Cooperative Extension, 11879
- This is Fanny Frontalis, your dying pines may have met her, 11197
- This is 4-II, 8977
- This is HEW, 5735
- This is NASA, 10092
- This is operation breakthrough, 15844
- This land, this water, this west, 14764
- Thistles, Russian, detrimental effect on semidesert range in west-central New Mexico, 1917
- Thom, H. C. S., direct and inverse tables of gamma distribution, 1832
- Thomas, David D., address, Aug. 20, 1968, 12597
- Thomas, Ella C., reports of Tax Court, 16496
- Thomas, Jess W., determination of random progeny in air from alpha activity of air samples, 5152
- Thomas, Marilyn, student beneficiaries under social security, 8859
- Thomas, Rose, relief, 13878
- Thomas Jefferson Memorial, general information, 16278, 17293
- Thomason, Donald A., environmental impact of brine effluents on Gulf of California, 9955
- Thompson, Edward R., how to buy canned and frozen vegetables, 10482
- Thompson, Fletcher, contested election, report, 7901
- Thompson, T. L., comparison of concurrent-flow, crossflow, and counterflow grain drying methods, 7595
- Thompson, Theos J.:
remarks—
Sept. 15, 1969, 15081
Oct. 9, 1969, 15080
- Thompson, William I., III, review of radiometric measurements of atmospheric attenuation at wavelengths from 75 centimeters to 2 millimeters, 10104
- Thompsonville, Mich., railroad accident, report, 11094
- Thomsen, E. W., water resources of Sycamore Creek watershed, Maricopa County, Ariz., 5727
- Thomson, Robert G., analytical evaluation of denting of airplane surfaces by hail, 13134
- Thorium:
distribution in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
metal, preparation by vacuum distillation of electro-deposited thorium-chromium and thorium-manganese alloys, 10066
minerals yearbook chapter, 13030
use in nuclear power reactors, civilian nuclear power, 15077
- Thorngate, J. H., energy and angular distribution of neutrons and gamma rays, Operation HENRE, 16619
- Thornton, William A., structural synthesis of ablating thermostructural panel, 4662
- Thorpe, M. L., induction plasma heating, high power, low frequency operation and pure hydrogen heating, 10083
- Thraillkill, James R., zooplankton volumes off Pacific coast, 7815
- Threaded studs, 5493
- Three Affiliated Tribes of Berthold Reservation, *see* Fort Berthold Reservation.
- Thresholds (perception):
differential thresholds for motion in periphery, 16145
- Thrombolysis, fibrinolysis, thrombolysis, and blood clotting, bibliography, 1968 annual compilation, 8685
- Thrust:
injectors and ablative thrust chambers for floxpropane rocket engine with 1.2 inch throat diameter, 11496
minimum thrust for correcting Keplerian orbits with application to interplanetary guidance, 2245
nominal, of 20,000 pounds, liquid rocket acoustic-mode-instability studies at, interim summary, 2262
- Thrustors, *see* Ion thrustors.
- Thunderstorms:
detection and presentation of severe thunderstorms by airborne and ground-based radars, comparative study, 11024
general information, 5580
severe thunderstorms of Apr. 3, 1964, structure and movement as revealed from radar and surface mesonet network data analysis, 6911
- Thurber, W. L., type casting, classification definitions, 1286
- Thuronyi, Geza T., Antarctic bibliography, 8565
- Thyratrons:
high-temperature cesium-vapor—development and inverter testing, 6142
recovery time, reduction, 16133
- TIAS series, 1448-55, 2490-2504, 3529, 4970-78, 6275-6303, 7492-526, 10418-423, 11711-728, 13478-488, 14907-930, 13441, 16472-482, 7408-413
- Tiber Dam, auxiliary outlet works, 16394
- Tickfaw River, Stars Bridge near Magnolia, La., memorandum on stream flow data at State Highway 441 and 442, 8361
- Ticks:
cooperative tick eradication activities, report, 13553
national tick surveillance program, 13545, 16533
- Tidal waves, *see* Tsunami (tidal wave).

Tides:

- current tables, 1970—
 - Atlantic Coast of North America, 15153
 - Pacific Coast of North America and Asia, 13798
- tables—
 - central and western Pacific Ocean and Indian Ocean, 13799
 - Europe, west coast of Africa and Mediterranean sea, 12059
 - North and South America—
 - east coast, 9195
 - west coast, etc., 6532
 - south Biscayne Bay, Dade County, Fla., 8362
 - tidal lands of Cape May County, N.J., flood plain information, 9701
- Tie stalls for dairy calves, farm building plan, 16550
- Tiedemann, John G., monitoring performance as function of muscular response effort, 6446
- Tierney, Richard K., Army aviation digest, 3547
- Tierra Redonda Mountain, geology, 732
- Tighe, Francis, the ripples reach all shores, 6848
- Tighe, Michael J., industry wage, survey, communications, 7176
- Tiles:
 - failure of floor tile systems, investigation, 14204
 - tile setters, employment outlook, 4484
- Tillage, publications, list, 11788
- Tilling, Robert I., distribution of thorium, uranium, and potassium in igneous rocks of Boulder batholith region, Mont., and its bearing on radiogenic heat production and heat flow, 15805
- Tillman, Seth, diary of trip to Asia, Peace Corps and Fulbright program, 9458
- Tilman, Milton M., tensile and stress-rupture properties of rolled Pb-Cd-Sb alloys, 14550
- Tilmon, Emogene, sand and gravel conveyance, 13972
- Tilmon, Wayne and wife, sand and gravel conveyance, 13974
- Timber:
 - bridges, standard plans for highway bridges, 11648
 - computer program for scheduling allowable cut using either area or volume regulation during planning periods, 8295
 - Douglas-fir supply, alternative programs for increasing timber supplies, from national forests, 12676
 - Federal, competition in Pacific Northwest, 12710
 - a glimpse at New York's current timber resources, 17029
 - hardwood veneer timber volume in upper Michigan, 11173
 - Humboldt County, Calif., resources statistics, 4334
 - Indiana, volume, 11172
 - lodgepole pine and spruce-fir, in Colorado, response of deer to alternate-strip clear-cutting, 14284
 - managed stands, rapid computation of yield tables, 698
 - management policies, hearing, 4101
 - measurement problems, in Douglas-fir region, bibliography, 4329
 - national forest commercial timberlands, development and improved management to establish higher yield, hearings, 10763
 - national forests, sale accomplishments, 11168
 - national timber supply act of 1969, hearings, 10763
 - 1967 Oregon timber harvest, 4335
 - pine sawtimber price behavior in South Carolina, 11190

Timber—Continued

- potential for intensive management—
 - Flathead Reservation, Montana, 1998
 - Navajo Reservation, Arizona and New Mexico, 1999
- predicting tree d.b.h. from stump measurements in Southeast, 7015
- production investments under uncertainty, computer program to evaluate, 4311
- round timber piles, strength evaluation, 7019
- simulating the management of even-aged timber stands, 697
- South Carolina, 8320
- preview, 1928
- stumpage prices for sawtimber sold from national forests (periodical), 3472
- 29 years of selection timber management on Crossett Experimental Forest, 11188
- Vermont resources, 700
- why TSI? timber stand improvement increases profits, 10494
- Time:
 - geomagnetic time, calculation, 11565
 - improved use, for scientific research work needed, USSR study, 846
 - ionosphere propagation delay measurement techniques using dual phase coherent doppler frequencies and thin shell model, 13288
 - perception of space and time in outer space, 10162
 - reactor-noise analysis in time domain, 9071
 - residence time, influence on coal-steam gasification reactions, 13027
 - space-time correlations and power-and cross-spectra of surface fluctuating pressures, 16185
 - standard time—
 - and frequency, its generation, control, and dissemination from National Bureau of Standards Time and Frequency Division, 14672
 - zone chart of the world, 13265
 - thermal-vacuum test of flight model spacecraft, time required for adequate test, 2232
 - time for action, highlights of 4th national conference of commissions on status of women, 12824
 - variable parameters, estimation, by use of integral transforms, 8644
- Time deposits:
 - higher reserve requirements, extend act—law, 341, 16737
 - report, 15376
 - time and savings deposits, changes, 8238, 11134, 14226
- Time-interval differentiator, automatic device for dividing and packaging light trap insect catches according to time intervals, 5
- Time series—
 - from beach environment, 611
 - regression analysis of freight and passenger transport demand to 1980, 16509
- Time to serve them, employ/re-employ veterans, 16005
- Timmer, Elaine J., health insurance coverage adults who died in 1964 or 1965, 17360
- Timmins, A. R., time required for adequate thermal-vacuum test of flight model spacecraft, 2232
- Tin:
 - elastic scattering of 21 MeV protons, 1138
 - Lake George area, Colo., distribution, 738
 - mineral industry surveys, monthly, 3496
 - minerals yearbook chapter, 16108
 - pumped helium tests of 51-centimeter bore niobium-tin magnet, 10112
 - resources of world, 8341
 - white, galvanomagnetic and thermomagnetic effects in fields to 3.3 tesla and at temperatures between 1.2 and 4.2 K, 10142

- Tinamous, spotted tinamous and pale spotted tinamous of Argentina, study, 13466
- Tinkers Creek:
Cuyahoga County, Ohio, floods, keep damages low by building high, 12496
flood plain information, 9672
- Tip moth, control, spraying not practical for southern pines, 1931
- Tips (monetary) *see* Gratuities.
- Tips for fishermen, 301
- Tires:
cord and fabrics, current industrial reports, 2733
defective, require notification to purchasers—
hearings, 9361, 15427
reports, 12160, 15253
Federal item identification guides for supply cataloging, supplements, 2842
scrap, destructive distillation, 16102
tread wear, some problems in measuring, 13160
- Tirmizi, Nasimi M., Stomatopod crustacea from West Pakistan, 1209
- TIROS (television infrared observation satellite), *see* Satellites.
- Tishomingo, Miss., pine management pays off, 11746
- Tissues:
biology of hard tissue, conference, proceedings, 1038
process for imprinting micro lagoon fields in plastic surfaces for use in cell and tissue culture, 11470
proteolytic activity of nerve tissue, USSR study, 8496
tissue typing antisera, catalog, 13169
transplantation, human, psychological and social aspects, annotated bibliography, 4892
supplement, 11631
- Titanium:
alloy sheet materials after prolonged exposure at 550°F (561°K) strain-rate sensitivity, 2268
alloys—
correlation of two fracture toughness tests, 7380
fracture toughness characterization etc., to failure-safe design structural procedures, 7383
hot-salt stress-corrosion—
generation of hydrogen and its embrittling effect, 4728
under simulated turbine-engine compressor environment, 17251
stress-corrosion cracking characterization procedures and interpretations to failure-safe use, 11571
identification marking, Federal standard, 9829
inductoslag melting, 11383
ingot and mill products, current industrial reports, 2732
liquid, vapor pressures, 2,008° to 2,379°K, 11286
mineral industry survey, quarterly, 3497
minerals yearbook chapters, 988, 16109
notched Ti-8Al-1Mo-1V alloy, fatigue at room temperature and 550°F (560°K) with flight-by-flight loading representative of supersonic transport, 11486
solubility in liquid potassium, 7270
tensile properties of titanium and titanium-base alloys, effect of nuclear radiation at cryogenic temperatures, 16186
Ti-6Al-4V titanium-alloy sheet, hot-salt-stress-corrosion cracking and its effect on tensile and stress-rupture properties, 16170
Ti-8Al-1Mo-1V alloy and AM 350 stainless steel sheet, effect of outdoor exposure at elevated temperature on fatigue life, 13133
- Titanium—Continued
titanium and molybdenum additions, interactions with interstitial impurities in vanadium, 10063
titanium-plated steel in chloride environment, evaluation, 2013
titanium skin-stringer panels, influence of various fabrication methods on compressive strength, 14634
zinc-copper-titanium alloy, effect of varied extrusion temperature on properties, 4649
- Titanium chlorides, titanium chlorination residues, beneficiation, 4642
- Titanium nitride, gaseous titanium mononitride, dissociation energy of, 5999
- Titles (land), *see* Land.
- To continue action for human rights, 8782
- To deepen our commitment, Human Rights Year 1968, interim report, 1321
- To improve secondary school science and mathematics teaching, 4812
- To reject no one, remarks, 589
- To your future . . . with love, 10290
- Tobacco:
barns, 4- & 5-room, farm building plans, 48
burley, light air-cured, market review, 1968 crop, 9504
cane milling of nicotine from green nicotiana rustica, 6359
facts on smoking, tobacco, and health, 4880
fire-cured and dark air-cured, market review, 1967 crop, 8102
flue-cured—
market review, 1968 crop, 8103
tobacco industry, potential mechanization, with emphasis on human resource adjustment, 15618
foreign agriculture circulars, 2902
industries, 1967, statistics, 5764
industry in Puerto Rico data pertinent to review of minimum wage rates, 13531
Maryland, broadleaf, official standard grades, 10923
nontariff barriers to movement in free world countries, 9841
Ontario, Canada, growing, harvesting, etc., 1903
research, hearings, 9326
revenue rulings, etc., internal revenue bulletin, cumulative, index-digest supplement system, 12832, 14414
sensitive monitor for photochemical air pollution, 13354
smoking, and health, information, 13376
statistics, annual report, 7617
stocks, report, 3499
tax guide, 3500, 5779, 9981
taxes, internal revenue bulletin, index-digest, 2993
tobacco marketing problems (address), 14983
tobacco situation (periodical), 3498
see also Cigarettes.
- Tobago, *see* Trinidad and Tobago.
- Tobias, Jerry V.:
cockpit noise intensity—
eleven twin-engine light aircraft, 9090
fifteen single engine light aircraft, 7727
- Tocks Island Dam:
Delaware River basin—
hydroelectric power development, report, 12274
power aspects, hearings, 6801
- Today (VA help for recently discharged veterans), 4999
- Today's students, tomorrow's workers (remarks), 11546
- Todd, Carroll A., FORTRAN IV program to estimate off-design performance of radial-inflow turbines, 6011
- Todd, Ethel L., books and articles on marine mammals, 5299

- Togo :
capsule facts for Armed Forces, 110
economic trends and their implications for
United States, 2035, 11301
- Toilet articles :
Federal item identification guides for sup-
ply cataloging, supplements, 2849
trade and tariff information, summaries,
6316
- Toilet preparations, *see* Toilet articles.
Toiletries, *see* Toilet articles.
Toledo, Ohio, area wage survey, 11346
Tolerances (physiology), *see* Orthostatic
tolerance—Stress (physiology).
Toll Gate, W. Va., railroad accident, report,
11086
Tolle, W. E., hypobaric storage of mature-
green tomatoes, 11873
Tolls, facilities in United States, 4906
Tomato fruitworms, *see* Bollworms.
Tomatoes :
agricultural adjustment act, amend, re-
port, 15394
golden nematode, description, control, etc.,
6396
mature-green hypobaric storage, 11873
Tomboullian, Roger, research and develop-
ment of sonic boom simulation device,
13043
Tones :
combination effects of tone and duration
parameters on perceived noisiness, 5981
pulse tone technic and audiometer modifi-
cation for pure-tone threshold deter-
mination, 1550
Tongue of the Ocean, magnitude of tempera-
ture variability at one location, 13212
Tonkin, Joe, you're on camera in color, tele-
vision handbook for extension workers,
15002
Tonkin Gulf, 1964 incident, hearing, supple-
mentary documents, 8063
Tonometry, observations of intraocular pres-
sure changes during FBM patrol as mea-
sured by Schiotz tonometry, 11372
Tonto National Monument, general informa-
tion, 1229
Tonto Springs Range, grazing values on un-
disturbed chaparral versus areas converted
to grass, 14264
Tool makers, employment outlook, 4519
Toolrooms, layout plates, industrial plant
equipment handbook, 8113
Tools :
fixtures and test equipment for flat con-
ductor cables, compilation, 2213
woodworking tools, classification defini-
tions, 1280
see also Hand tools—Machine tools—
Measuring instruments.
Tooma, Samuel G., jr., oceanography in
Channel Islands area of southern Califor-
nia, 13268
Toon, Malcolm, nomination, hearing, 9460
Toothpaste and powder, *see* Dentifrices.
Topographic symbols, *see* Maps and charts.
Topography, 2-dimensional, effect on super-
ficial thermal gradients, 12759
Topside sounder, *see* Satellites.
Torblaa, Richard L., effects on lamprey
larvicides on invertebrates in streams,
3926
Toroidal tanks, *see* Tanks.
Toroids :
and their parts, view factors, 8610
closed toroidal systems, method of external
injection of electrons into, 15072
Torque :
eddy-current torques, experimental in-
vestigation, on bodies rotating relative
to uniform magnetic field, 11442
torque and leakage rates of various lubri-
cated lip seal designs at peripheral
velocity of 120 feet per second, 14647
Tor-Shok reusable energy absorbing pro-
tective barrier, 14822
Torsion, *see* Strains and stresses.
Tortricidae, *see* Moths.
Touchet division, *see* Walla Walla project.
Tourism, *see* Tourist trade.
Tourist trade :
potential Visit USA outlets abroad, 4996
tourism business (remarks), 15175
travel USA, role of tourism, 305
USA, tour manual, 1483, 8926
Tourists, popular tourist items, 1969 rates
of duty, 6821
see also Visitors.
Tourtelot, Harry A., stratigraphic signifi-
cance and petrology of phosphate nodules
at base of Niobrara formation, east flank
of Black Hills, S. Dak., 4365
Toward equal opportunity in Federal em-
ployment, 13796
Toward job equality for women, 15677
Toward a liveable man-made world, 7807
Toward a national materials policy, report,
14061
Toward a new fiscal federalism (remarks),
14953
Toward a social report, 5736
Towels, current industrial reports, 9145
Towers :
Saturn V-launch-umbilical-tower config-
uration 1/40 scale dynamic model—
experimental vibration characteristics,
1093
vibration analysis, 1094
Towing, towing vessel safety and accident
preventive recommendations, study, 16288
Town, Joseph W. :
alkalized-alumina attritioning and SO₂
sorption rates, 11390
evaluation of phosphate fines from south-
eastern Idaho, 2172
flood plain information, 4202
Town Creek
floods in Pocahontas, Ark., how to avoid
damage, 4209
Towns, *see* Cities and towns.
Townsend, John W., jr., nomination, hear-
ings, 1737
Townsend, Marjorie R., Small Astronomy
Satellite (SAS) program, 10105
Townsend Engineering Co., President's E
award for export excellence presentation
(address), 10644
Toxicants, *see* Poisons.
Toxicity, *see* Poisons.
Toxicology :
of propellant hydrazines, 10524
toxic, and medicinal, fluorocarbon com-
pounds, USSR study, 4449
Toxins :
growth and production of Clostridium
botulinum types E, nonproteolytic B,
and F, in nonirradiation and irradiated
fisheries products, 7709-10
marine toxins from Pacific II, contamina-
tion of Wake Island Lagoon, 8851
toxic agents, 15943
Toye, Charles R. :
computerized Arrhenius reliability extrap-
olation techniques, 1119
introduction to computer-aided reliability
data analysis, 5995
Toys :
child protection act of 1969, reports,
15228, 15252
educational wooden toys, production op-
portunities in Tennessee Valley, 11740
hazardous, protect children from, under
Federal hazardous substances act—
hearings, 10793, 12291
report, 10859, 15228, 15252
safety act of 1969—
hearing, 12291
report, 10859
TP series, 1407

- Trace elements:
and mercury in sphalerite and wallrocks from central Kentucky, Tennessee, and Appalachian zinc districts, 1957
spectrochemical analyses of coal ash, 13025
- Tracer studies:
Amargosa Desert, Nye County, Nev., by Geological Survey, exploratory drilling, tracer well construction and testing, and preliminary findings, 14360
radioisotopic and tracer study, Point Conception, Calif., preliminary report on accomplishments, 15646
radiotracer procedures for mechanistic studies in air pollution research, 16103
tracer measurement of stream reaeration, 9837
- Tracheotaxy as generic criterion in Hymenoptera, with proposal of 2 new Bothriogastrina genera (Chilopoda: Geophylomorpha), 13424
- Tracking:
control and guidance signals derived from optical fields, techniques for generation, 16146
fundus tracker for experiments in stabilized vision, research study, 997
Goddard Range and Range Rate System at Rosman, evaluation by intercomparison with GEOS I long arc orbital solutions, 11437
human transfer characteristics in flight and ground stimulation for roll tracking task, 4734
microwave and laser systems for communication and tracking, parametric analysis, summary, 8657
regression analysis procedures for evaluation of tracking system measurement errors, 2225
spacecraft, 8604
systems developed for improving accuracy and for reducing pilot workload during noise-abatement landing approaches flight investigation, 17202
tasks—
closed-loop, human response in synthesis, 1074
small perturbation dynamics of neuromuscular system, 2192
- Tracking stations:
agreement with—
Malagasy Republic, 2490
Mauritius, 2501
extension, agreement with Spain, 14916
GEOS I positions on SAO Standard Earth (C-5), 11435
Okinawa, agreement with Japan, 2492
- Traction:
pavement grooving and traction studies, 7247
publications list, 11788
runway traction (paper), 13647
- Tractors:
crawler skidders, selecting by comparing relative operating costs, 17039
current industrial reports, 2732, 9149
change, 9150
Federal item identification guides for supply cataloging, supplements, 2842
USSR industrial development, tractor industry, translations, 3554
- Trade, *see* Commerce—Retail trade—Service trade—Tariff—Wholesale trade—also names or classes of commodities.
Trade agreements, *see* Commercial treaties.
Trade associations, Webb-Pomerene export trade associations and wood products industries or can Webb-Pomerene act help U.S. sell more processed wood to Japan? 12713
Trade expansion act of 1968, *see* Commercial treaties.
Trade fairs, *see* Fairs.
Trade marks, *see* Trademarks.
- Trade Negotiations Office of Special Representative, *see* Special Representative for Trade Negotiations, Office of.
Trade policy, *see* Commercial policy.
Trademarks:
code of Federal regulations, 8234
decisions, yearly, 1968—
departmental edition, 16321
document edition, 15218
index, 13315
laws, investigation, authorization, report, 5414
official gazette of Patent Office, 3214
trademark section from Official gazette, 3214
Trades, *see* Occupations.
Tradevman, 3 & 2, Navy training course, 2347
Trading stamps, use and economic significance, economic report, 12653
Traffic:
bias in license plate traffic survey response evaluation, 14814
Defense Department management activities in Far East and Southeast Asia, overall observations, GAO report, 8334
geometric and traffic characteristics of interstate system, relationship to accidents, analysis and modeling, 16380
license plate traffic survey, 11646
regulation and law enforcement on national forest development road system, 13602
St. Lawrence Seaway, report, 7445
speed trends, 6218
test comparison between functional and volume concepts of delineating traffic corridors, 7435
traffic and Motor vehicle safety act of 1966, implementation, hearing, 5423
see also Air traffic—Safety of life—Transportation.
Traffic control, improvement of transportation graphics and communications, proceedings of seminar, 13387
see also Air traffic.
Traffic decisions, *see* Interstate Commerce Commission.
Traffic managers, *see* Managers.
Traffic safety, *see* Safety of life.
Traffic signals, *see* Signal system.
Trafficating in broadcast station licenses and construction permits, 7961-62, 9303
Trafford, Pa., railroad accident, report, 11082
Trailblazer, *see* Rockets.
Trailer parks, mobile homes and parks, bibliography, 16401
Trailers:
Federal item identification guides for supply cataloging, supplements, 2842
mobile homes—
and parks, bibliography, 16401
financing purchase with FHA loans, hearings, 15421
housing survey, 4389
nitrogen-refrigerated and mechanically refrigerated, effects of transit temperatures and modified atmospheres on market quality of lettuce, 3647
sprinkler pipe trailer, farm building plan, 3661
truck, current industrial reports, 2732, 9151
Trails:
Cle Elum Ranger District, Wenatchee National Forest, trips, 14255
Wenatchee National Forest bike trips, general information, 12722
Train, Russell E.:
nomination, hearing, 5452
remarks, Sept. 22, 1969, 15851
Traineeships:
allied health professions personnel training act of 1966, amended, report, 8683, 13167

Traineeships—Continued

- allied health professions program, grants for advanced training, 2308
- professional health personnel under Public health traineeship program, 11545
- Trainers (devices), *see* Training devices.
- Training:
 - advanced, traineeship grants, allied health professions program, 2308
 - agency training centers for Federal employees, 1646
 - application of systems approach to training, case study, 13793
 - apprentice, sure way to skilled craft, 5880
 - building maintenance man, suggested guide for training course, 15634
 - child welfare personnel, Federal grants, 5236
 - creative developments in training of educational personnel, 9649
 - defense management education, catalog, 1767
 - electrical appliance serviceman, suggested guide, 14133
 - employee training in Federal service, 5269
 - statistical annex, 5270, 7783
 - employment opportunities—
 - jobs for which apprenticeship training is available, 4605
 - jobs for which junior college, technical institute or other specialized training is usually required, 4609
 - enactments, 90th Congress, 2d session, 14055
 - experimental and special training grants, NIMH, guidelines for applicants, 17337
 - fire behavior training exercises, 8275
 - foreign students in United States Air Force, selection, 6403
 - homemaker/home health aide, recommendations for training and services, 10327
 - in-service, criteria and guidelines for evaluation, 1385
 - instructional systems and technology, introduction to field and use in Federal training, 12056
 - Job Corps standard for painter, 5521
 - job training suggestions for women and girls, 2544
 - jobs and civil rights, role of Federal Government in promoting equal opportunity in employment and training, 7762
 - leadership, career in Office of Education, 4188
 - major collective bargaining agreements, training and retraining provisions, 7170
 - making the scene in jobs, school, training, through Neighborhood Youth Corps, 4464
 - manpower development and training—
 - preparing people for good jobs, 4465
 - program, annual report, 8385
 - manpower development and training act—
 - amend—
 - law, 7827
 - report, 6655
 - contracting for on-the-job training, improvements needed, GAO report, 710
 - experimental and demonstration program, exploring new approaches to manpower problems, 5881
 - good training, good jobs, MDTA—
 - nurse aide to licensed practical nurse, 1809
 - occupational therapy assistant program, 579
 - upgrading practical nurses, 580
 - handbook chapter, training project development, 16967
 - programs, 5015
 - methodology, annotated bibliography—
 - audiovisual theory, aids, and equipment, 8821
 - background theory and research, 8818

Training—Continued

- methodology—continued
- instructional methods and techniques, 8820
- planning and administration, 8819
- model in-service training program for correctional personnel, 871
- national program for training skilled aviation personnel preliminary design study, 559
- occupational, Government commitment in industry, 2101
- OEO training manuals, 4152-53
- on-the-job training—
 - and wage-hour standards in foreign countries, 5898
 - employer's guide under Manpower and training act, 8532
- programs—
 - impact on public assistance caseloads, 2967
 - under economic opportunity act, monthly report, 2554
- sextant sighting performance and effects of differing amounts of training and of monochromatic targets, 14605
- skill training for production of memorized movement pattern, 2204
- skilled craft, apprentice training, sure way, 15029
- summer youth opportunity program, Transportation Dept., 1968 annual report, 11751
- technical standards training guides, 15709
- training systems and technology series, 12056, 13793
- veterans, special training allowance, increase rates, reports, 12170, 16869
- work training in industry, training out-of-school youth for available jobs, 7166
- see also* Administrative management—
 - Apprentices — Education — Job analysis — Mechanics (persons) — Military education — Naval education — Staff training — Technical education — Vocational education — *also* subjects.
- Training devices:
 - and aids, Federal item identification guides for supply cataloging, supplements, 2850
 - gas hazards trainer, maritime safety data, 14443
 - guide, Naval Training Device Center, 13305
 - naval training equipment and individual differences, effects of subject matter variables, study, supplementary report, 1256
 - Navy design manual, changes, 4818
 - training device developments (Navy periodical), 3504
- Trains, *see* Railroads.
- Traits Cove, Revillagigedo Island, Alaska, oceanographic surveys, 3927
- Trajectories:
 - analysis of maximum range trajectories for rocket-propelled lunar flying vehicles in uniformed gravitational field, 17228
 - combined Newton-Raphson and gradient parameter correction technique for solution of optimal-control problems, 1147
 - computational method for time-optimal space rendezvous, 4742
 - direct, to Jupiter, Saturn, Uranus, and Neptune, general discussion etc., planetary flight handbook, 13058
 - launch vehicles, optimal 3 dimensional launch vehicle trajectories with attitude and attitude rate constraints, 7287
 - matched-conic solutions to round-trip interplanetary trajectory problems that insure state-vector continuity at all boundaries, 4705
 - optimal, generation of ideal coordinate systems for analysis of, 1037

- Trajectories—Continued**
 optimum takeoff and climbout trajectories for noise abatement, 11450
 parametric angles of trajectory-determined field line intersects predicting location of artificial auroras, 13074
 reentry behavior of PuO_2 microspheres analyses and experiments, collation and experiments, 5184
 sequential processing techniques for trajectory estimation, 17196
 spacecraft, optimization, optimal branched, 10078
 three point-mass descent, requirements of Martian television experiment, 4749
- Tranquilizing drugs, tranquilizers and LSD, general information, 1377**
- Trans World Airlines, Inc., aircraft accident, 16285**
- Transcribers, expert, to official reporters, increase compensation, report, 377**
- Transducers:**
 capacitance, biomedical applications, 5193
 commercial unbonded strain-gage-type absolute pressure transducer at 260°C, performance of two models, 11497
 Coulter, use in determination of nucleopolyhedron counts and size of frequency distributions, 4316
 flush mounted pressure transducers, thermal gradient effects, 14974
 high-pressure piezoelectric ceramic transducer, USSR type F43, 7389
 miniature solid-state pressure transducer, feasibility study, 11415
 potentialities of pinch effect in semiconductor, 8624
 strain gage pressure transducers, effects of extended high-temperature storage on performance characteristics, 16231
- Transformations (mathematics):**
 application of similitude to model design of soil-projectile system, 1027
 elastic constants for anisotropic media by successive simple rotations, 7214
 shape preserving expansion and contraction of objects in E_3 , 13077
 use of integral transforms in estimation of time variable parameters, 8644
- Transformers, see Electric transformers.**
- Transient response of coupled acoustomechanical systems, 14588**
- Transient responses, see Responses.**
- Transients (electricity):**
 hydro power plant transients, prototype measurements, Garrison and Oahe Dams, Missouri River, North and South Dakota, 4215
 errata, 9716
 internal transient control for solid state power supplies, 547
- Transistors:**
 in subassemblies, effects of ultrasonic vibrations, 3738
 inductors for protecting power transistors against current surges in inverter bridge circuits, analysis and design, 4725
 MOS field-effect-transistor technology, 996
 performance in intense magnetic fields, 16177
 spacecraft analog-to-digital conversion system employing MOSFETS, 11457
 transistor series amplifier, 11762
 using transistors in avalanche mode, USSR study, 12947
- Translations:**
 probabilities for Ia I and II, critically evaluated, 4769
 turbulent boundary layer and transition on plane plate, calculations, errata, 1149
- Translating machines, copyrights for machine translations considered, USSR, 12954**
- Translations:**
 National Institutes of Health—
 index, 1967 supplement, 1196
 Library, selected list, 3368
- Translations—Continued**
 special foreign currency science information program, 1969 list in process, 10632
- Technical—**
 National Aeronautics and Space Administration, 1149, 2270, 4757-59, 6026, 8658, 10158-163, 11502-506, 13142-150, 14650 652, 16207 210, 17255 256
 USSR bilingual study, 17125
- Transmission lines, see Electric lines.**
- Transmission loss, see Transmissions.**
- Transmissions:**
 amplitude scintillation at Randle Cliff derived from ATS 1 transmissions, 10261
 electric transmission specifications and drawings, 1372
 ESSA direct transmission system users guide, 15671
 high-reduction-ratio transmission in UH 1 helicopter, installation, 11950
 lunar surface transmission loss for Apollo astronaut, 1129
 propagation data, irregular terrain, tabulations, Fritz Peak receiver site, 9722
- radiofrequency—**
 characteristics of ablation materials, 1102
 transmission characteristics of candidate ablation materials for planetary entry-vehicle heat shields, 2235
- study 190, Steering Committee report, 14409**
- transmission loss atlas for select aeronautical service bands from 0.125 to 15.5 GHz, 2567**
- Transmitters:**
 for tracking wildlife, 1922
 transmissions towers and parts, effects of importation on certain workers of Shiffler Plant, Pittsburgh, Pa., and Maywood Plant, Los Angeles, Calif., American Bridge Division, U.S. Steel Corp., Tariff Commission report, 17417
- Transmitting equipment, see Transmitters.**
- Transpiration:**
 development of radiolabelled procedures for measuring water movement in trees, 16629
 portable apparatus for estimating stomatal aperture in conifers, 12693
- Transpiration cooling, see Cooling.**
- Transplantation (physiology):**
 immunology research, collaborative program of National Institute of Allergy and Infectious Diseases, 16266
 research advances in human transplantation, 14694
 status of transplantation, 1968 report, 6067
 tissue, human, psychological and social aspects, annotated bibliography, 4892 supplement, 11631
- Transport aircraft, see Aircraft.**
- Transport airplanes, see Airplanes.**
- Transport depletion evaluated with natural brackish water, 8835**
- Transport depletion processes development, 9974**
- Transport helicopters, see Helicopters.**
- Transport pilots, see Aviators.**
- Transport properties:**
 transport processes in electrochemically controlled ion-exchange desalination, 7088
 transport study of neutron and photon attenuation through lithium hydride and tungsten spherical media, 4719
 water transport in hyperfiltration membranes, 5761
- Transport vehicles, see Vehicles.**
- Transportation:**
 abbreviations and definitions for use in emergency transportation planning, 10435

Transportation—Continued

air transportation—
 problems (address), 6512
 supplemental, terms, conditions and
 limitations of certificates to engage in,
 CAB economic regulations, 255
 airlift service management report, Military
 Airlift Command, 13625
 alcohol problems and transportation
 safety, need for coordinated efforts,
 11556
 Army rail transport operations, field
 manual, 6432
 Army regulations, 5108, 15035
 Army transportation movements management,
 13656
 census, 1963—
 advance and/or preliminary reports,
 truck inventory and use survey, 1617,
 3831-32
 final volume, 9121
 census 1967—
 advance and/or preliminary reports,
 truck inventory and use survey, 10599
 national travel survey, 9121
 code of Federal regulations, 9819-20,
 11130-132
 Defense Department civilian personnel,
 permanent change of station travel, etc.,
 general information, 134
 Defense Department management activities
 in Far East and Southeast Asia,
 overall observations, GAO report, 8334
 directory of urban transportation research
 and planning projects, 14394
 economics, monthly comment, 3525
 equipment, instruments, and ordnance
 manufacturing, industry trend, 9095
 evaluating urban transportation systems,
 16386
 farm products, economics, 7596
 Federal regulation in Alaska, 14197
 HUD's role in urban transportation, 4387
 information, report to Committee on Ap-
 propriations, House, 13509
 inter-American, affected by regulatory
 problems (remarks), 14211
 international transport of goods under
 cover of TIK carnets, customs conven-
 tion, 8887
 Isthmian Canal demand forecast, economic
 analysis of potential tonnage traffic,
 14944
 marketing and transportation situation,
 3105
 migratory birds, 1969-70, in United States,
 etc., Federal regulations governing,
 13461, 14884
 MILSTAMP, military standard trans-
 portation and movement procedures,
 changes, 8140, 16931
 modes of, study of uniform reporting sys-
 tem in reporting incidents and accidents
 involving shipment of hazardous mate-
 rials, 14721
 moving expenses—
 deductions, tax reform hearings, sum-
 mary of testimony, 10814
 tax information for employees and em-
 ployers, 12836
 tax reform, press release announcing
 tentative decisions, 9376, 13945
 MTMTS port handling billing rates, Army
 pamphlet, 16589
 National Capital region subway system,
 Federal contribution for transit develop-
 ment program, hearings, 10893
 National Capital transportation act of
 1969, Federal contribution for transit
 development program, report, 12257
 National Defense Executive Reserve
 seminar conference, proceedings, 16505
 1967 census geographic area coding man-
 ual, cross reference section, 221
 public, design for use of the handicapped,
 10282

Transportation—Continued

regulatory problems affecting inter-Ameri-
 can transportation (remarks), 14211
 research, development & demonstration
 projects, directory, 17433
 specialist, unmatched careers with Inter-
 state Commerce Commission, 11312
 statistics in United States, 8492, 15895
 study, regional and sectoral analysis of
 wheat-flour economy, 16548
 tax reform hearings, moving expenses, in-
 come tax deductions, written statements
 of witnesses, 7984
 transportation and economic development
 in Alaska, policy analysis, 12612
 transportation and travel, freight descrip-
 tions and suffixes, Army regulation,
 15034
 transportation proceedings (periodical),
 3526
 transportation forecast series, 16509
 time regression analysis of freight and
 passenger transport demand to 1980,
 16509
 urban commutation alternatives, 13511
 urban mass, study—
 authorization, report, 4050
 expenses, report, 4017
 urbanized area planning programs,
 directory, 13385
 USSR, translations, 3523
 utility airports, air access to national
 transportation, 8205
 Washington, D.C. metropolitan area pilot
 transportation study, 1722
 weapon packaging, handling, storage and
 transportation preparation, performance
 and compatibility requirements, mili-
 tary standard, 549
 worldwide cargo transportation costs
 guide, Army pamphlet, 9040
 change, 11940
 see also Local transit—Motor carriers—
 Roads and highways—Ships—Travel.
 Transportation Department:
 and marine sciences, report, 13507
 annual report, 16508
 administration of natural gas pipeline
 safety act, 13505
 departmental edition, 8916-17
 document edition, 7843
 appropriations, 1970, hearings, 16810
 Coast Guard use of military personnel in
 civilian-type positions, GAO follow-up
 review, 1215
 1st intra-departmental safety seminar,
 proceedings, 11755
 goals and objectives, problems, programs,
 and priorities, 11753
 Highway safety act of 1966, adminis-
 tration, annual report, 6326
 implementing national traffic and Motor
 vehicle safety act of 1966, review and
 progress, hearing, 5433
 natural gas pipeline safety act, progress
 in implementing, hearing, 16879
 nominations, hearings, 1737, 9452
 organizations and functions, 2520, 11760
 role as it involves automobile safety stand-
 ards (remarks), 2518
 Secretary, nomination of John A. Volpe,
 hearing, 5435
 Secretary's Office, regulations, 6328,
 16506-507
 summer youth opportunity program, 1968
 annual report, 11751
 survey of operations, hearing, 1703
 telephone directory, 2762
 urban mass transportation administration,
 progress report, 15422
 what, where, and how it buys, 13510,
 16510
 Transports, supersonic, tentative airworthi-
 ness standards, 12665

Transylvania:

Hungarians in Transylvania, bibliographical list, 13860
print as House document, report, 381
Trappe, J. M., biology of ader, 12672
Traps, *see* Insect traps.
Traumas, *see* Injuries.

Travel:

air travel clubs using large aircraft, certification and operations, Federal aviation regulations, 1854, 9742, 15686
Army military personnel, dependents to overseas areas, information, Army pamphlet, 171
Army regulations, 5108, 15035
as you travel, ask yourself, how safe are motel pools? 8799
authorization, Banking and Currency Committee, House, report, 375
business (remarks), 15175
census of transportation, 1967 national travel survey, 9121
Cle Elum trail trips, Wenatchee National Forest, 14255
Defense Department civilian personnel, permanent change of station travel, etc., general information, 134
expenses, rules for deducting from income tax, 2020
flight to grandmother's, 9743
foreign visitor traffic promotion (remarks), 17432
future of travel (address), 15163
Government and travel's future (remarks), 15130
Government employees, maximum rate of per diem allowance, increase—
hearing, 6715
reports, 6692, 6698, 16852
grants to finance travel to international youth conferences, hearings, 495A
joint regulations—
Defense Department civilian personnel, 3020, 15525
uniformed services, 1786, 3019
Monte Carlo simulation for origin-destination surveys, 11647
MTMIS port handling billing rates, Army pamphlet, 16589
new world, *see* USA, 8925
passenger between U.S. and foreign countries, 788, 3381, 8404
patterns of international visitors to United States, 10443
Peace Corps, excess foreign currencies to pay expenses of returning volunteers, GAO report, 8333
pleasure and business visitors to U.S. by port of entry and mode of travel, 14956, 16519
round trip, naval service members, provide, amend U.S. Code—
hearings, 7949
report, 7929
State and territorial travel information offices in U.S.A., list, 14957
trail bike trips, Wenatchee National Forest, general information, 12722
travel and transportation, freight descriptions and suffixes, Army regulation, 15034
travel/USA, role of tourism in our economy, announcement and order form, 6167
United States—
information, 11764
simplified explanation of role of tourism in United States, 305
travel bargains, 7553
travel a new world, *see* U.S.A., map, 2535
USTS/ALTA visit USA sales seminar (remarks), 17431
visit USA program (remarks), 16520
worldwide cargo transportation costs guide, Army pamphlet, 9040

Travel—Continued

woven strands, cooperation in Central America, account of President Lyndon B. Johnson's Central American trip, July 6-8, 1968, 2488
Travel agents, potential visit USA outlets abroad, 4996
Travelers:
handicapped, guidebooks, 1311
so you want to import a pet, 524
Traversing mechanisms, hoists, classification definitions, 2375
Travis, B. V., arthropods of medical importance in Latin America, 7656-57
Trawling, *see* Trawls and trawling.
Trawls and trawling:
bottom trawl explorations, 1963-65—
Green Bay of Lake Michigan, 7811
Lake Superior, 6547
southern Lake Michigan, 9223
Traynor, Joseph E.:
dose rate effect on LD 50/30 in mice exposed to cobalt-60 gamma irradiation, 3704
early effects of 150-Mev proton irradiation in rhesus monkeys, 3698
Trays:
ash receivers, tobacco, Federal standard, 15736
packaging produce, at central warehouse, 3646
Treasury:
United States independent system, background and evaluation study, 13199
withdrawal of cash from, for advances under Federal programs, 8918
Treasury Building, historical highlights, 16513
Treasury Department:
Alaska file of Secretary of Treasury, pamphlet to accompany microcopy, 1165
annual report, statistical appendix—
departmental edition, 11763
document edition, 10692
appropriations, 1970—
hearings, 9331, 10886
law, 16740
reports, 9310, 9312, 10873, 15281
bulletin, 3528
circular letters of Secretary (T Series), pamphlet to accompany microcopy, 2281
code of Federal regulations, 6962
customs bulletin, weekly, 2737
daily statement, 2741
department circulars, 2522-23, 4992, 8918, 10438, 11761
public debt series, 1476, 2524-25, 7549-50, 14946-948, 17421-422
facts about U.S. money, 4993
foreign exchange operations, 1892, 8253, 15733
internal audit activities, GAO review, 15787
press releases, 3329
program to control inflation, developments in international financial system, and effort to enact tax reform (remarks), 17426
recommends maximum interest equalization tax rates be raised, summary, 465
report, 1968—
departmental edition, 4991
document edition, 3953
Secretary—
letters and reports received from special agents, pamphlet to accompany microcopy, 16217
letters received from collectors of customs, pamphlet to accompany microcopy, 16215
letters sent to collectors of customs at Pacific ports, 1850-78, pamphlet to accompany microcopy, 16216
nomination of David M. Kennedy, hearing, 4076

Treasury Department—Continued
 silver sales limited to small business concerns, GAO report, 12750
 tax reform studies and proposals, 4006, 7982-83, 12244
 summary, 8060
 telegrams sent by Secretary of Treasury ("XA" series), microcopy, pamphlet to accompany, 1168
 telephone directory, 3494
 Treasury notes:
 5 $\frac{3}{8}$ percent, series A-1974, 2525
 5 $\frac{5}{8}$ percent—
 series B-1970, 2524
 series B-1974, 1476
 6 $\frac{1}{4}$ percent, series A-1976, 7550
 6 $\frac{3}{8}$ percent, series C-1970, 7549, 14946
 6 $\frac{1}{2}$ percent, series B-1976, 14947
 7 $\frac{1}{2}$ percent, series C-1976, 17422
 7 $\frac{3}{4}$ percent—
 series A-1973, 17421
 series D-1971, 14948
 Treaties:
 collective defense, compilation, 9344
 in force, list, 6304
 multilateral—
 1776-1917, compilation, 4979
 1918-30, compilation, 13489
 nonproliferation of nuclear weapons, military implications, hearings, 5426
 treaties and other international acts series:
 1448-55, 2490-2504, 3529, 4270-78,
 6275-6303, 7492, 7526, 8884-8901,
 10418-423, 11711-728, 13478-488,
 14907-930, 16472-482, 17408-413
 treaties and other international agreements, 1456, 6305, 13490, 16484-485, 17414
 1776-1949, compilation, 4979, 13489
 see also Commercial treaties—*also* names of countries—*also* subjects.
 Treatment tips, how to determine quantities for chemical treatments in fish farming, 1428
 Tree nuts, *see* Nuts.
 Tree planting:
 in Southwest, here's how, 14291
 seedling survival and growth of six northwestern tree species, effects of artificial flooding, 8294
 tree planters' notes, 3530
 trees for a better tomorrow, 11748
 see also Forest planting.
 Trees:
 and shrubs of Penobscot Experimental Forest, Penobscot County, Maine, 17043
 barks, properties in relation to their agricultural utilization, 17050
 calculation of tree volumes with interior defect, NETVSL computer program, 4323
 chemical control, 14991
 climber sets, military standard, 8139
 design difficulties in stand density studies, 11179
 development of radioisotope procedures for measuring water movement in trees, 16629
 diseases of eastern forest and farm woodlands, 6375
 edible fruit of forest trees, 12678
 how a tree grows (poster), 7002
 intensive cleaning increases sapling growth and browse production in Southern Appalachians, 9865
 Jost Van Dyke, British Virgin Islands, description, etc., list, 15766
 nutrient cycling by throughfall and stem-flow precipitation in 3 coastal Oregon forest types, 4326
 principal kinds in forest regions of U.S., list, map, 1908
 sectional aluminum poles improve length measurements in standing trees, 7014
 seedlings, assimilation chamber for measuring—

Trees—Continued
 seedlings, assimilation chamber for measuring—Continued
 carbon dioxide exchange, 14286
 outdoor photosynthesis, 14285
 shadow patterns and illumination measurements within clear-strips and irregular openings in true fir forest, 4320
 State, list, 12719
 survival and growth on fescue-covered spoil banks, 15757
 tree pruner, modified, for twig sampling, 9850
 woody—
 Cape Perpetua Area, Siuslaw National Forest, 702
 ornamentals, marketing, practices and trends of nurseries in Louisiana, 12412
 see also Citrus trees—Forests and forestry—Fruit—Hardwoods—Tree planting.
 Trefethen, Parker S., fish-passage research, review of progress, 1666
 Trematoda, *see* Flukes.
 Tremmel, Ernest B., remarks, Nov. 14, 1968, 201
 Trends in negotiated health plans, broader coverage, higher quality care, 11352
 Trent River, flood plain information, 12469
 Trenton, N.J.
 area wage survey, 5902
 population, special census, 7746
 Tres Alamos, Ariz., plant ecology of area, 4361
 Triassic period:
 red-bed facies, Minas Basin, Nova Scotia, multispectral photographic studies, 1531
 Star Peak Group and overlying lower Mesozoic rocks, Humboldt Range, Nev., stratigraphy, 7053
 Upper Triassic, Chinle (Upper Triassic) and Sundance (Upper Jurassic) formations in north-central Colorado, 7045
 Tribes, Myron:
 addresses—
 Apr. 29, 1969, 7807
 June 10, 1969, 10642
 Aug. 12, 1969, 12071
 Sept. 16, 1969, 13805
 Sept. 23, 1969, 15176
 Oct. 30, 1969, 16709
 Tribute to courage, 8783
 Trichinosis, facts about, 11795
 Trichlorometaphos, methods of analyzing in aerosol containers and in air, USSR study, 15954
 Trichopsis vittatus, *see* Croaking gouramis.
 Trichoptera, *see* Flies.
 TRIGA reactor, *see* Reactors (atomic).
 Tri-Gas & Oil Co., Inc., motor carrier accident, 13037
 Trigg, William M., summary and analysis of fire danger indexes for selected coastal Alaska stations, 12720
 Trigonometry:
 accurate strapdown direction cosine algorithm, 16160
 direction cosine computational error, 8654
 Trim attitude, life and drag of Apollo command module with offset center-of-gravity positions at Mach numbers to 29, 11480
 Trimble, George R., Jr.:
 form recovery by understory sugar maple under uneven-aged management, 15756
 rate of value increase for northern red oak, white oak, and chestnut oak, 17044
 Trimble, Val, student financial aid, what, where, how, 5556
 Trimming, trimmings, etc., trade and tariff information, summaries, 1461
 Trinidad and Tobago:
 background notes, 6271
 double taxation, agreement, 6300
 economic trends and their implications for United States, 11305
 Peace Corps volunteers, agreement, 16477

- Trinity County, Calif.:
 Mad River, flood control, engineers report—
 departmental edition, 598
 document edition, 360
- Trinity River and Valley—
 and tributaries, Tex., engineers report—
 departmental edition, 4213
 document edition, 3948
- hydrologic data of basin, compilation—
 Elm Fork Trinity River, 11238
 Little Elm Creek, Tex., 14340
 North Creek, Tex., 11240
- Trips, *see* Travel.
- Tritium, sources and behavior upon release to environment, 5176
- Tritons, (a, T) reactions on scandium-45 at 41 MeV, 10134
- Troglinae, *see* Beetles.
- Troops, *see* Armed Forces—Army.
- Trophies, National Guard Bureau, Eisenhower trophy to outstanding unit of company size, announcement of winners, pamphlet, 17271
- Tropics, corrosion of metals in tropical environments, 14744
- Troposphere, tropospheric pulse propagation, 15675
- Trotlines, for blue crabs, 1668
- Troughs, element distribution in some trough and platform types of black shale and associated rocks, 9886
- Trousdale County, Tenn., appraisal of potentials for outdoor recreational development, 17388
- Troues, Albert C., jr., nyctitropic movement as false wilt symptom of cotton, 14974
- Trout, Otto E., jr., simulation of Gemini extravehicular tasks by neutral-bouyancy techniques, 11462
- Trout:
 dealers, lists—
 Alabama, 11680
 Arizona, 11682
 Arkansas, 11681
 California, 11683
 Connecticut, 11684
 Florida and Louisiana, 10385
 Georgia, 10386
 Idaho, 10388
 Illinois, 10389
 Indiana, 10390
 Iowa, 10387
 Kentucky and Maryland, 10391
 Tennessee, 13449
 Virginia, 13450
 pond management, 14869
 quinaldine as anesthetic for brook trout and lake trout, 10392
- steelhead—
 Columbia River basin—
 cost, incurred to preserve as source of salmon and trout, GAO report, 12732
 recent advances in artificial culture, 6550
 identification by scale characteristics, 16712
- Troy, N.Y., area wage survey, 11345
- Truclal Shalkhdoms, *see* Truclal States.
- Truclal States:
 background notes, 17401
 capsule facts for Armed Forces, 1556
- Truck drivers, *see* Motortruck drivers.
- Truck mechanics, *see* Mechanics (persons).
- Truck trallers, *see* Trallers.
- Trucks:
 inventory and use survey—
 advance and/or preliminary reports, 1617, 3831-32, 5202-7, 10599
 United States summary, 10599
 mail survey to collect commodity data on, size, type, use, etc., 10342
 movable pen for truck platform scale, 3653
see also Motortrucks.
- Trullo, John G., numerical calculation of viscous compressible fluid flow around oscillating rigid cylinder, 17210
- Trumbull, John, American painting, 6-cent commemorative postage stamp, ceremonies (address), 1302
- Trunk, G. V.:
 median detector for noncoherent distributions, 13299
 noncoherent detection of nonfluctuating targets in contaminated-normal clutter, 10267
- Trusses:
 rubular beryllium and Be-38A1 alloy truss-type structures design, fabrication, and tests, 11469
 trussed rafters—
 design criteria, 15827
 longtime performance, initial evaluation, 685
- Trust funds, *see* Trusts and trustees.
- Trust Territory of Pacific Islands:
 administration, report to United Nations, 11708
 annual report, 7080
 appropriations, 1970—
 hearings, 7946
 reports, 12171, 15398, 16793
 claims against Japan, agreement, 14925
 economic development—
 fund act of 1969, report, 16875
 promote, report, 16875
 High Commissioner, nomination of Edward E. Johnston, hearing, 14042
 mineral industry, minerals yearbook chapter, 965
- Trusteeships (International), *see* International trusteeships.
- Trusts (Industrial):
 antitrust laws—
 administration, investigation, authorization, report, 4058
 antitrust and monopoly activities, 1968, report, 12272
 failing newspapers, exempt certain combinations and arrangements necessary for survival, hearings, 486, 1701, 5456
 automotive repair industry, hearings, 9174
 economic concentration outside United States—
 hearings, 485
 supplementary material, hearings, 8079
 expediting act, amend—
 hearings, 4088
 report, 452
 multiple trusts, tax reform hearings, summary of testimony, 10812
see also Competition.
- Trusts and trustees:
 accumulation trusts including multiple trusts, tax reform press releases announcing tentative decisions, 13945
 commercial banks and their trust activities emerging influence on American economy, staff report, 392
 print additional copies, report, 379
 highway trust fund—
 financial condition and operations, annual report, 6580
 operation, authorizations, interstate system cost estimates, status of interstate system, 11057
 jointly administered trust funds for product promotion, employer contributions, permit, report, 16817
 legal investments for trust funds in District of Columbia, lists, 4149, 14116
 profit sharing trust, requirements, code of Federal regulations, 11778
 tax reform hearings dealing with multiple trusts, etc., summary of problems, 7989
 trust funds for educational scholarships, etc., employer contributions—
 hearing, 9342, 9481
 reports, 10714, 12261, 15283

- Trusts and trustees—Continued
trust indenture act of 1939, releases, SEC, 3531
see also Charitable trusts.
- Truth in lending act, *see* Credit.
- Truth in seed labeling, 16552
- TS series, 785, 1996-97, 5752
- Tsal, L., TE_m mode reflection coefficient of ground-plane mounted parallel-plate waveguide illuminating reflecting sheet, 8597
- Tsander, F. A., from a scientific heritage, lectures, reports, etc., 10161
- Tsivoglou, E. C., tracer measurement of stream recreation, 9837
- Tsunami (tidal wave):
Alaska, earthquake of Mar. 27, 1964, effects on various communities, 14346
Alaskan earthquake, 1964, engineering evaluation, 4198
Crescent City Harbor, tsunami model, theoretics in design of proposed, 14155
northeastern Indian Ocean, 10216
USSR studies, 8518
- Tuamotu Islands, radioecological research in Mururoa Atoll region, USSR study, 8506
- Tuba City, Ariz., chemical stabilization of uranium tailings, 14552
- Tubbs, Carl H., influence of light, moisture, and seedbed on yellow birch regeneration, 11184
- Tuberculosis:
eradication in cooperation with States, summary, 3478
program reports, 11640
reported data, 6203
see also Pulmonary diseases.
- Tuberculosis in animals:
eradication, State-Federal cooperative program, statistical tables, 7571
laboratory diagnosis, recommended standard procedures, 13540
- Tubes:
Federal item identification guides for supply cataloging, supplements, 2845
finite thickness elastic solid tubes enclosing liquid cylinder of interest, effect, 10265
glass tube apparatus for large-scale culture of *Chlorella*, USSR study, 833
graphite heat-transfer tubes of controlled permeability to steam, scale control, phase 2, 4402
heat, superthermal conductivity, USSR study, 2079
metallic, Federal item identification guide, change, 15511
porous tubular supports, in-situ formation of regenerative cellulose acetate membranes, 17096
simulated heat exchanger tube, fouling characteristics of ASTM Jet A fuel when heated to 700° F in, 2257
simulated rocket cooling tube section, variation of convective heat-transfer coefficient, 10117
stuffing tubes and components, Federal item identification guide—
change, 5491
errata, 15518
subsonic expansion tube, experimental evaluation, 11411
thin-wall Be-38 Al alloy tubing, mechanical properties, and column behavior, 8629
tube cutting, impact energy-absorbing strut employing, 2243
tubular reverse osmosis—
pilot plant, design, fabrication and testing of 1000 gallon per day capacity, 9966
units, process and configuration development, 11280
tubes and tubing assemblies, Federal item identification guide, change, 15505
use of plastic tubing in maple sap production, summary and evaluation of research, 7020
- Tubes—Continued
welded N-155, creep-rupture data, 8645
see also Beryllium—Cathode ray tubes—
Electron tubes—Inner tubes—Shock tubes—names of metals, etc., of which tubes are made.
- Tubes (inner), *see* Inner tubes.
- Tubing, *see* Tubes.
- Tuck, Bradford H.:
aggregate income model of semi-autonomous Alaskan economy, 14193
selected economic indicators, 14198
- Tucker, Sterling:
nomination—
hearings, 5437
report, 6737
- Tucson, Ariz., Air Quality Control Region, report for consultation, 17357
- Tuff, *see* Volcanic ash, tuff, etc.
- Tuft-grid surveys at low speeds for delth wings, 6006
- Tulare Lake Basin, botulism outbreak, hearings, 12238
- Tulare-Wasco area, Calif., land subsidence due to ground-water withdrawal, 14345
- Tule Lake Irrigation District:
durum wheat acreage allotments—
hearing, 12283
report, 15395
- Tule Lake National Wildlife Refuge, general information, 16446
- Tuliptree:
silvical characteristics of yellow poplar, 9868
yellow-poplar seedlings, symptoms of nutrient deficiency, 7011
- Tulloch, George S., preventive chemotherapy of canine dirofilariasis with diethylcarbamazine, 105
- Tully, Philip C., helium, bibliography of technical and scientific literature, 1962, including papers on alpha-particles, 7206
- Tumbling, physiologic research on human tumbling, 6417
- Tumors:
hematopoietic neoplasms, comparative morphology, 16259
human tumor cell kinetics, 11537
neoplasms and related disorders of invertebrate and lower vertebrate animals, 16258
osmotically induced coalescence of sarcoma cells through intercellular bridges in vitro, 4745
registries, End Results Group, 1967 code manual, 1191
- Tuna fish:
maturity and spawning of skipjack tuna in Atlantic Ocean, with comments on nematode infestation of ovaries, 5307
skipjack tuna, Hawaiian live-bait fishery, some operational aspects, 1671
yellowfin and albacore, Japanese Atlantic longline fishery, 1965 status of stocks, 7816
- Turners, classification definitions, 1295
- Tungsten:
alloy, W-20 percent Mo alloy fabricated by powder metallurgical methods, homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of, 4762
are-melted tungsten-rhenium-hafnium-carbon alloys, mechanical properties, 13123
argon-tungsten—
and argon-uranium induction heated plasmas, experimental investigation of spectral emission characteristics, 8503
plasma, theoretical investigation of composition and line emission characteristics, 10073
chloride vapor deposited tungsten emitter (110) and nickel collector, thermionic converter with characteristics, 14587

Tungsten—Continued

- dislocation structures in single crystal tungsten and tungsten alloys, 17240
- fabrication of cermets from mixed powders and coated particles, 7294
- high temperature oxidation protection, 16210
- Lake George area, Colo., distribution, 738
- lithium hydride and tungsten spherical media, transport study of neutron and photon attenuation through, 4719
- mineral industry survey, monthly, 3532
- minerals yearbook chapter, 16110
- point defect calculations, 1131
- solubility in liquid potassium, 17248
- thermal stability and friction of disulfides, diselenides and ditellurides of tungsten in vacuum (10^{-4} to 10^{-6} torr), 10110
- thermionic converter with fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, characteristics, 14571
- tungsten and tungsten-1.5 percent hafnium, with molten uranium, compatibility tests, 6020
- tungsten-rhenium alloy, recovery of rhenium, 10055

Tungsten carbide, preparation, by electrodeposition, 7217

Tungsten isotopes, tungsten-184 as thermal flux monitor at high temperatures, use, 7283

Tunisia:

- agricultural commodities, agreements, 6302, 14926
- capable facts for Armed Forces, 109
- economic trends and their implications for United States, 2040
- mineral industry, minerals yearbook chapter, 6088

Tunneling:

- dust control in United States, 5934
- tunnel boring machine props, stresses and displacements induced in rock, 979

Tunnels:

- toll facilities in United States, 4906
- 12-inch hypersonic ceramic-heated, rotational and vibrational temperature measurements, 1110
- unreinforced concrete linings, structural design data, 16097
- see also Shock tunnels.

Tunney, John V., measuring hamlet security in Vietnam, 5358

Tupelo, seeding habits of swamp tupelo, 17054

Tupes, Ernest C.:

- adjusted OER scores with inflation effects removed, 10506
- development of data base for AFROTC management control system, 12509
- prediction of officer performance and retention from selected characteristics of college attended, 10510

Turbidity, silt, effects on behavior of juvenile bass and green sunfish, 7475

Turbine blades, see Blades.

Turbine fans:

- large-scale 1.075-pressure ratio tip-turbine cruise-fan propulsion system at angle of attack, subsonic aerodynamic characteristics, 14611
- tip-turbine-driven fans for lateral control in hovering VTOL aircraft, flight evaluation, 17235

Turbine fuel:

- advanced high-speed fuel pumps for small gas-turbine engines, 10555
- aviation, 1968, petroleum products survey, 5953

Turbines:

- aircraft gas, small high-performance, feasibility of gas bearings, 6458
- annular gas turbine combustors, analysis of total-pressure loss and airflow distribution, 14631

Turbines—Continued

Brayton-cycle turbomachinery rolling-element bearings, 4666

cold performance evaluation of 4.97-inch radial-inflow turbine designed for single-shaft Brayton cycle space-power system, 7260

flow reduction due to oxidation of wire-form porous sheet for transportation cooled turbine blades, analytical study, 4729

fluid-cooled axial flow turbine, 7671

gas, Mines Bureau coal-fired research project, test of combustor and ash separators for open-cycle plant, 14558

gas turbine blades, transpiration cooled, oxidation resistant materials for, wire specimen tests, 1012

gas turbine engines—

advanced, shaft face seal with self-acting lift augmentation, 7303

flight, salt deposits in compressors, survey, 5994

small, advanced high temperature combustor research, final report, 3783

gas turbine powered vapor compression plant for evaporation of seawater, design and economic study, 2006

high-turbine-inlet-temperature engines in methane fueled SST, influence when takeoff jet noise limits, are considered, 2260

high-temperature radial, design and evaluation, final report, phase 1, 9055

hydraulic turbine industry, price indexes for materials, quarterly, 2074

hydraulic turbine operations, index of hourly earnings, selected establishments, 2972

large-scale 1.075-pressure ratio tip-turbine cruise-fan propulsion system, subsonic performance characteristics, 14610

lubrication in turbulent regime, 3794

potential economic benefits from use of radiolotopes in flow measurements through high-head turbines and pumps, 10347

radial-inflow, FORTRAN IV program to estimate off-design performance, 6011

simulated turbine-engine compressor environment, hot-salt stress-corrosion of a titanium alloy, 17251

single-stage axial compressor component development for small gas turbines, 13675

small gas-turbine engines—

advanced high speed fuel pumps, 10555

component technology-turbine—

phase I summary report, 1585

phase II summary report, 1586

high-temperature turbine, technology advancement, 7671

surface temperature mapping with infrared photographic pyrometry for turbine cooling investigations, 10121

turbine blade wear by coal ash in working fluid at 1,200° F, 10056

turbines and components, Federal item identification guides for supply cataloging, supplements, 2842

turbomachine, FORTRAN program for calculating—

transonic velocities of blade-to-blade stream surface, 16176

velocities, etc., 8611, 8616, 14603

viscous, isothermal compressible flow across sealing dam with small tilt angle, computer program, 14621

see also Brayton cycle—Engines (aircraft).

Turboalternators:

and associated hardware, high-performance, 7231

design, description, 7230

high-performance, and associated hardware, 7230

design of backup gas bearings, 5984

INDEX 1969

- Turbofan engines, *see* Engines (aircraft).
 Turbojet aircraft, *see* Airplanes.
 Turbomachines, *see* Turbines.
 Turbulence:
 boundary layer—
 and transition of plane plate, calculations, errata, 1149
 compressible, method of calculating, 1002
 experimental and theoretical development in Mach 4.4 water-cooled conical nozzle, 14625
 function of stenoid apparatus of fish in presence, USSR study, 15963
 on typical subsonic transport fuselage, experimental investigation, 11464
 disturbance in unbounded viscous fluid, nonlinear decay, 2247
 free stream turbulence, effect on coaxial mixing, 10081
 hypersonic turbulent nozzle-wall boundary layers, comparison of prediction methods and studies of relaxation, 16181
 in mixing region between ducted coaxial streams, 13039
 investigation by optical methods, USSR study, 12881
 mixing of compressible air jets in coaxial configuration, experimental investigation, 11492
 ocean, and internal wave parameters, USSR study, 8502
 turbulent plasma, electromagnetic properties, 16618
 Turbulent flow, *see* Flow.
 Turkey:
 agricultural commodities, agreement, 7524
 ambassador, nomination of William J. Handley, hearing, 8065
 atomic energy, cooperation for civil uses, agreement, 13485
 capsule facts for Armed Forces, 124
 economic trends and their implications for United States, 7105, 17106
 foreign trade regulations, 15169
 labor conditions and organizations, 14463
 loan of U.S.S. Bergall, extension, agreement, 6284
 mineral industry, minerals yearbook chapter, 7210
 plant quarantine import requirements, 14979
 records of Dept. of State, pamphlet accompanying microcopy internal affairs, 13151
 status of U.S. forces, duty certificates, agreement, 4973
 Turkeys:
 breeder hens, 1969 hatching season intentions, 6313
 domestic (*Meleagris gallopavo*), myology and osteology, atlas, 196
 national improvement plan—
 conference report, 13554
 hatcheries, dealers, and independent flocks, participants, 5021
 provisions, 7574
 1969 marketing guide, 1750
 number raised, 1969 intentions, etc., 7536
 tested by official State agencies, monthly report, 3533
 Turmeque, Colombia, phosphate occurrence, 15793
 Turnbow, J. W., crash survival design guide, 15058
 Turner, D. Bruce, workbook of atmospheric dispersion estimates, 10303
 Turner, Francis C.:
 nomination, hearing, 6800
 remarks, Feb. 19, 1968, 7437
 Turner, Guthrie L., jr., borderline medical problems and fitness for flying, 86
 Turner Falls, Mass., water resources appraisal for hydroelectric licensing, 8211
 Turner family and their clothing money, 8982
 Turney, George B., measurement of liquid and two-phase hydrogen densities with capacitance density meter, 10103
 Turnips, effects of prolonged reduced pressure on growth and nitrogen content, 3705
 Turnstile antennas, *see* Antennas.
 Turpentine, *see* Naval stores.
 Turquoise truncatus, *see* Dolphins.
 Turquoise Lake, Fryngpan-Arkansas project, impact survey, report, 4301
 Tussock moths:
 Douglas-fir tussock moth control, Malheur and Ochoco National Forests, 1965 surveillance, 14295
 sequential sampling of Douglas-fir tussock moth populations, 12706
 Tuto, Greenland, 50-man winter camp, design and construction, 15651
 Tutorial method in education, *see* Tutors and tutoring.
 Tutors and tutoring, programmed tutorial reading project, Indianapolis, Ind., elementary program in compensatory education, 6872
 Tuttle, D. E. L., Navy management review, 3181
 Tuxpan, Mexico, despatches from U.S. consuls, pamphlet to accompany microcopy, 7316
 TV, *see* Television.
 TVA, *see* Tennessee Valley Authority.
 Two-burn escape maneuvers with intermediate coasting ellipse, 4737
 Two-micron sky survey, preliminary catalog, 16150
 Two weeks, 17405
 Tye, Tex., railroad accident, report, 9793
 Tye Lake, southeastern Alaska, geologic reconnaissance of possible power sites, 5697
 Tyler, John, letters of application and recommendation during administration, pamphlet to accompany microcopy, 1162
 Tynes, W. O.:
 air entrapment in mass concrete, 6908
 investigation of resistance of preplaced-aggregate concrete to freezing and thawing, 604
 Type:
 casting, classification definitions, 1286
 type face specimens used in Government Printing Office, 17075
 Typesetting, classification definitions, 2380
 Typewriters, current industrial reports, 2732, 7739
 Typhoons, Typhoon Marie 1966 development, satellite view, 1054
 Typists:
 employment outlook, 4556
 examination announcements, 5273, 16693
 amendment to supplement, 9181
 discontinuance, 5259
 supplement, 5274
 sample questions, 15150
 Federal office assistant examination, what it is, and how it is given, 5260
 renorming USES statistical typing test, 594
 secretary-typist, examination announcement, amendment, 1640
 Tyrrell, Miles E., horizontal zinc retorts, 2179

U

- U.S.D.A., *see* Agriculture Department.
 U.S. Diplomatic Courier Service:
 50th anniversary commemorative medals—
 law, 15196
 reports, 7926, 12268
 U.S. dollar at home and abroad (remarks), 9825
 U.S.I.A., *see* United States Information Agency.
 U.S.S. Everglades, *see* Everglades (U.S.S.).
 U.S.S.R., *see* Union of Soviet Socialist Republics.

- Uberall, H., topics in electron scattering and nuclear models, notes on lectures at NRL, 1264
- Udall, Stewart L., statement, Dec. 12, 1968, 2014
- Udell, Gilman G.:
bankruptcy laws of United States, 1683
civil service classification and salary laws, 5317
emergency tariff laws of 1921, etc., 3940
farm relief and agricultural adjustment acts, 3941
laws relating to civil service retirement, 348
laws relating to shipping and merchant marine, 3943
liberty loan acts, 350
liquor laws, 1684
naturalization laws, 351
oil land leasing act with amendments and other laws relating to mineral lands, 1685
opium and narcotic laws, 1686
passport control acts, 352
radio laws of United States, 353
Small Business Administration and Investment act, etc., 354
surplus property act of 1944 and amendments, 355
veterans laws, supplement, 3944
- UFO, *see* Unidentified flying objects.
- Uganda:
Army area handbook, 6438
economic trends and their implications for United States, 15587
mineral industry, minerals yearbook chapter, 2149
- UH- (nos.), *see* Helicopters.
- UHF, *see* Ultrahigh frequency.
- Uihlein, Peter J., journal of Navy civilian manpower management, 3023
- Uinta Mountains, geologic story, 8340
- Uinta National Forest, general information, 8324
- Uinta project, Uinta River basin, Utah, water quality control study, 8264
- Ukrainian Soviet Socialist Republic:
Academy of Sciences—
activities, 15912
newspaper articles, 15969
president interviewed, 12906
Ukrainian scientists work for the people, translation, 15939
- Ullbarri, George S., preliminary inventory of records of Solicitor of Treasury, 1172
- Ullman, Joseph C., helping workers locate jobs following plant shutdown, 8563
- Ullom, Judith C., Louisa M. Alcott, annotated selected bibliography, 11363
- Ulrey, Ivon W., economics of farm products transportation, 7596
- Ultrahigh frequency:
frequency management engineering principles, VHF/UHF/microwave link facility handbook, 12590
UHF propagation measurements over irregular terrain in 76- to 9200-MHz range, 12569
- Ultrashort waves, *see* Radio waves.
- Ultrasonic waves, *see* Sound.
- Ultrasonics, *see* Sound.
- Ultraviolet rays:
contribution of X-ray and extreme ultraviolet radiation of solar flares to sudden frequency deviations, 9725
effects on the eye, 10530
- Umatilla National Forest, general information, 12723
- Umatilla Reservation, Confederated Tribes of Umatilla Indian Reservation, judgment funds, disposition, report, 15257
- Umbrellas, trade and tariff information, summaries, 1466
- Umpqua River and Valley, basin, sediment transport in streams, 12787
- UN, *see* United Nations.
- Un-American activities:
campus disorders, extent of subversion, hearings, 14049, 16888
Students For a Democratic Society, activities, investigation, hearings, 13933, 15322
subversive activities, study and investigation, report, 5413
subversive involvement in disruption of 1968 Democratic Party National Convention, hearings, 10792, 12230
see also Communism.
- Un-American Activities Committee, House:
change name to Internal Security Committee, report, 5356
committee print, 4004
hearings, 425-426, 4005, 7977, 10791-792, 12230
report, 424
- Uncle Sam counts, story of census '70, 15164
- Uncompahgre, Colo., primitive area, mineral resources, 733
- Underdeveloped areas:
challenge of development, foreign aid, its uses, etc., 15892
development assistance in foreign countries, in new Administration, 7121
economic development (periodical), 2784
- Underemployment, *see* Unemployed.
- Underground mining, *see* Mines and mining.
- Underground structures, underground emplacement of nuclear explosives, construction techniques and costs for Plowshare program, 13708
- Underhill, Vt., Army Materiel Command Firing Range, adjust legislative jurisdiction, report, 12280
- Understanding the 1970 census, 12022
- Underwater exploitation of mineral resources, USSR study, 7136
- Underwater research, *see* Oceanography.
- Underwater sound, *see* Sound.
- Underwater vision, *see* Sight.
- Underwear:
knit, current industrial reports, 2733
women's and children's, Puerto Rico, under fair labor standards act, minimum wage rates, 11776
- Unemployed:
area trends in employment and unemployment, 2601, 14943
concentrated employment program, total service for unemployed and underemployed, 4461
decennial census, 1970, questions, limit categories, agency reports, 9363
employment security programs, Federal-State, funds to finance cost of administering, hearing 7980
Federal unemployment tax, collection to be in quarterly installments, etc.—
law, 15201
report, 7899, 10876, 15239
manpower development and training act, amend—
law, 7827
report, 6655
multi-troubled jobseeker, case of jobless worker with convulsive disorder, 16000
unemployed-parent segment of aid to families with dependent children, 3540
unemployment, New York City, facts, 14474, 16029
- Unemployment, *see* Unemployed.
- Unemployment compensation, *see* Unemployment insurance.
- Unemployment insurance:
benefit series service, 2623, 14954
claims (periodical), 3541
District of Columbia act, public international organizations, exempt, reports, 7910, 15382
employer's tax guide, 5765

- Unemployment insurance—Continued
 - employment security amendments, Treasury Department views (statement), 16516
 - employment security interviewers, appointments, separations, promotions, analysis, 1977
 - extend and improve system, proposals, message from the President, 12147
 - Federal unemployment account, Reed act loan fund, Dec. 1954–Dec. 1968, operations, 19371
 - Federal unemployment compensation statutes, amend, administration proposal, hearings, 16828
 - program, Railroad Retirement Board, benefit statistics, monthly, 3131
 - publications, price list, 4866
 - State laws—
 - and experience, 17430
 - comparison, 5564, 12444
 - employment and wages of workers covered, 2792
 - State salary ranges of positions in employment security, etc., 762, 11259
 - tax rates by industry, 5567, 12445
 - unemployment insurance review (periodical), 3542
 - unemployment insurance statistics (periodical), 3543
- UNESCO, *see* United Nations Educational, Scientific, and Cultural Organization
- Unger, Sherman, nomination, hearing, 5431
- Unidentified flying objects, UFOs and related subjects, annotated bibliography, 8995
- UNIDROIT, *see* International Institute for Unification of Private Law
- Unified analysis of turbulent jet mixing, 13046
- Unified form of Lambert's theorem, 16158
- Uniform system of accounts of class 1 and class 2 common and contract motor carriers of property, 15896
- Uniformed services, *see* Armed Forces—Pay, allowances, etc.
- Uniforms:
 - Army uniforms in collections of Smithsonian Institution, Army headgear to 1854, catalog, 8707
 - Coast Guard, auxiliary uniform, awards, and flag code manual, 9197
 - Marine Corps regulations, 8568
- Unfried, Amy B., computer mapping, 13759
- Union City, Tenn.:
 - flood plain information, 12470
 - floods, how to avoid damage, 12518
- Union County, Ark., community profile, 15607
- Union of Soviet Socialist Republics:
 - Academy of Agricultural Sciences, recent proceedings, 15942
 - Academy of Medical Sciences—
 - roster of nominees for membership, 15903
 - vestnik (periodical), 3573
 - Academy of Sciences—
 - experiments with electronic techniques, 15971
 - general information, 12887
 - history and work, brief account, 7156
 - vestnik (periodical), 3574
 - achievements in space research, 1957–67, 1st decade in space, 4442
 - agricultural situation in Communist areas, 6859
 - agricultural statistics, 5527
 - agriculture—
 - land reclamation and irrigation, 5818
 - reports delivered by Republic Party Secretaries, 2071
 - scientific research, 12900
 - translations, 3518
 - air transport services, agreement, 1452
- Union of Soviet Socialist Republics—Con.
 - All-Union Academy of Agricultural Sciences imeni V. I. Lenin, agricultural academy plans agricultural development to 1980, 5837
 - all-Union conferences and congresses—
 - automatic control, 2075, 7142
 - game theory, 15907
 - peaceful uses of atom, 839
 - psychologists', 2067
 - systems research, symposium, 17127
 - Ambassador, nomination of Jacob D. Beam, hearing, 5443
 - anti-Semitism, hearings, 10791
 - atomic power stations, handling of radioactive wastes, 12895
 - background notes, 14903
 - bilingualistic study of technical translation, 17125
 - biomedical research conducted during 1968 and early 1969 under space research program, 12939
 - biophysics research, 5817
 - budget provides for research and defense, 15916
 - Central Institute for advanced training of physicians, 15959
 - changes in etiological structure of dysentery in USSR, 8525
 - church and state separated, 2077
 - communications—
 - herald (periodical), 2957
 - translations, 3519
 - consumer goods and domestic trade, translations, 3520
 - cotton production, etc., 6399
 - cultural relations, exchanges, agreement, 2497
 - diplomatic and strategic impact of multiple warhead missiles, hearings, 12217
 - economy and industry—
 - general information, 3553
 - reports on economy, finance, and planning at Republic Supreme Soviet sessions, 5819
 - economy, recent developments, 2122
 - education, translations, 3516
 - electronic industry, survey, Japanese study, 15925
 - embassy sites, agreement, 14907
 - epidemiological studies, 7157
 - fish stocks replenishment by acclimatization, 12942
 - fisheries—
 - middle Atlantic Ocean, western areas, agreement, 6295
 - northeastern Pacific Ocean off U.S. coast, agreement, 7517
 - off Alaska, development and history, 10664
 - fishery problems, high seas in western areas of middle Atlantic Ocean, agreement, 6294
 - fishing industry and marine resources, translations, 3521
 - fishing operations, northeastern Pacific Ocean, agreement, 7518
 - food production and processing, 4418
 - foreign relations of U.S., diplomatic papers—
 - departmental edition, 16466
 - document edition, 15216
 - handbook for propagandists and agitators of Army and Navy, 7135
 - heavy-machine building developments, 4438
 - ideology defended, extended training urged, 841
 - independence of Kolkhoz members discussed, 2094
 - industrial development—
 - automotive and tractor industry, 3554
 - chemical industry and machinery, 3555
 - construction, construction machinery, and building materials, 3556

Union of Soviet Socialist Republics—Con.
 industrial development—continued
 electric power, fuels and related equipment, 3557
 electronics and precision equipment, 3558
 metallurgy and minerals, 3559
 metalworking equipment, 3560
 influenza A2 (Hong Kong) 1/68 virus and its implication in 1968 influenza outbreaks, 12940
 intellectual ferment and dissent, aspects, 1720, 1741
 print as Senate document, report, 447
 international economic relations, translations, 3561
 international negotiation, exchanges of scholars with Soviet Union, advantages and dilemmas, 16885
 invasion and continued occupancy of (Czechoslovakia), 9463
 king crab fisheries, agreement, 7516
 labor, translations, 3522
 law and social regulation, translations, 3517
 literary and political events, news, 2066
 medical conferences, 15910
 medical sciences look ahead, 8503
 metals journal, selections, 15982
 military-economic problems in political economy course, 4437
 military translations, 3447
 mineral industry, minerals yearbook chapter, 5948
 national economy, structure, study, 15922
 national radiation and organism conference, 2088
 northern, sailing directions, 10234
 Order of Red Banner Scientific Research Physical-Chemistry Institute imeni L. Ya. Karpov, 5823
 Party and State activities described, 864
 party-level discussions, translations, 852
 plant quarantine import requirements, 18
 polar studies, 7141
 political news, current, 2054
 principles of people's control applied, 5859
 prizes in science and technology, 15909
 public health—
 and medicine, 11324
 planning, financing in Soviet public health, 15932
 reviewed, 5835
 work of government and research organizations, study, 15968
 radio terminology, inadequacies discussed, 15958
 religion discussed, 4434
 Russian radioecology bibliography of Soviet publications with citations of English translations and abstracts, 3808
 science academies survey past and future, 8501
 science and technology, 1968 state prizes, roster of recipients, 5874
 science, philosophical problems of forecasting and organizing, 2093
 scientific abstracts, 3562-68
 scientific activities and organizations, news, 867
 scientific developments, magnetohydrodynamics, aerodynamic furnace invention, 2081
 scientific organizations' work scored, 2083
 scientists, physics institute decorated, 11319
 serials, half century 1917-68, published in USSR, list, 4612
 social science research, special papers available, 14904
 sociological news, current, 2051
 sociologists, university training urged, 5833
 Soviet approach to negotiation, selected writings, 5448
 Soviet penetration into Middle East, 1551

Union of Soviet Socialist Republics—Con.
 Soviet people need improved ideological education, 5846
 Soviet sunflowers and the world vegetable oil market (paper), 5532
 Soviet view of neocolonialism threat to Africa, 5853
 Stalin-type prison camps still exist, 5813
 strategic and foreign policy implications of ABM systems, antisubmarine warfare and multiple independently targeted reentry vehicles (MIRV), hearings, 14031
 strategic survey, bibliography, 15048
 technical physics research, 861
 tetanus immunity in population, studies, 15957
 transportation, translations, 3523
 U.S. mission on mental health to U.S.S.R., special report, 7427
 U.S.S.R. vs. U.S.A., changing strategic naval balance, 3984
 upper atmosphere and space research, 12937
 Union Pacific RR, accident, reports, 9795, 11557
 Union Slough National Wildlife Refuge, birds, list, 13455
 Union wages, *see* Wages.
 Unions, *see* Labor unions.
 Unit heaters:
 current industrial reports, 6496
 shipments, 1958-67, patterns of industrial growth, 11976
 Unit-load explosion in food industry, 15768
 United Airlines, Inc., aircraft accident, 6100
 United Arab Republic (Egypt):
 background notes, 8878
 cotton textiles, trade, agreement, 6278
 handbook, translation, 5876
 mineral industry, minerals yearbook chapter, 5949
 Nile Basin, agricultural development and expansion, 574
 United Kingdom of Great Britain and Northern Ireland, *see* Great Britain.
 United Nations:
 action agency for peace and progress, 13476
 European Office, U.S. Representative, nomination of Idar Rimestad, hearing, 15454
 Food and Agriculture Organization, United States report to FAO on progress, 17011
 General Assembly—
 major activities, report, 8069
 22d session, report, 400
 peacekeeping forces, report, 1698
 United Nations Children's Fund, U.S. financial participation, GAO report, 11229
 United Nations Economic Commission for Africa, useful market surveys and industry reports issued, supplement, 15170
 United Nations Educational, Scientific, and Cultural Organization, getting America behind UNESCO, 2487
 United Spanish War Veterans, convention, proceedings, 13849, 13858
 United States:
 NOTE.—For all subjects pertaining to the United States, except its government, general history, and description, *see* such subjects.
 commitments to foreign powers, report, 8027
 Mexico border, industrial and employment potential, 1798
 people of rural America, 3862
 pocket data book, USA 1969—
 departmental edition, 7749
 document edition, 7854
 recognition of foreign governments, expressing sense of Senate—
 hearing, 10901
 report, 15358

INDEX 1969

- United States—Continued
 - state of the Union message from President Johnson, 3951
 - statistical abstract, 1969—
 - departmental edition, 13774
 - document edition, 13856
 - travel a new world, *see* U.S.A., map, 2535
 - U.S.S.R. vs. U.S.A., changing strategic naval balance, 3984
- United States Arms Control and Disarmament Agency, biographic register, 13470
- United States Army Service Center for Armed Forces, USASCAF pamphlet, 3786
- United States coast pilots, *see* Coast pilots.
- United States Code, *see* Codes of law.
- United States Employment Service, test research reports, 594
- United States Information Agency :
 - appropriations, 1970—
 - hearings, 10767, 16878
 - report, 12192
 - biographic register, 13470
 - director, nomination of Frank J. Shaker, Jr., hearing, 4080
 - field staff, Foreign Service list, 2907
 - general information, 10442
 - internal audit activities, GAO review, 9878
 - magazine reprint MR series, 3094
 - report to Congress, semiannual, 2534, 8923
- United States magistrates, proposed rules of evidence, preliminary draft, 6352
- United States-Mexico Commission for Border Development and Friendship :
 - appropriations, 1970—
 - hearings, 10767, 16878
 - report, 12192
 - expenses, appropriations, authorize—
 - hearing, 16818
 - report, 16785
- United States Mission to United Nations, biographic register, 13470
- United States National Commission for UNESCO, memo, 16483
- United States National Committee on Vital and Health Statistics :
 - annual report, 8796
 - report on—
 - migration, vital, and health statistics, 6210
 - use of hospital data for epidemiologic and medical-care research, 10337
- United States Park Police, *see* Police.
- United States Pension and Employee Benefit Plan Commission, establish, hearing, 498
- United States reports, *see* Supreme Court.
- United States Steel Corporation, Shiffler Plant, Pittsburgh, Pa., and Maywood Plant, Los Angeles, Calif., transmission towers and parts, effect of importations on employment of certain workers, Tariff Commission report, 17417
- United States Travel Service :
 - annual report, 13513
 - Director, nomination of C. Langhorne Washburn, hearings, 9452
 - poster, 6331
 - press releases, 3330
- United strategy for crime control, 4459 10008
- United Transportation Union, emergency board report, 10992
- Universal Declaration of Human Rights, to deepen our commitment, interim report, 1321
- Universe, red-shift-magnitude relation and observational data, 14640
- Universities, *see* Colleges and universities.
- University of Georgia, preparation of elementary teachers, educational model specifications, 4172
- University of Tennessee, Agricultural Research Laboratory, research progress report, 1599
- Unloading and lading :
 - fresh fruit and vegetable unloads—
 - eastern cities, 6807
 - midwestern cities, 6809
 - southern cities, 6810
 - totals for 41 cities, 8098
 - western cities, 6808
 - loading environment and related requirements for platform rigged airdrop material, military standard, 543
 - loading patterns for ventilated rail and truck shipments, of dry onions, 7
 - nailed cleats, performance in blocking and bracing, 1913
 - overloading and improper loading, 6537
 - palletized and containerized unit loads, instructions for loading, military standard, 16924
 - unloading steel beams, safe work guide, 17147
- Unloading, *see* Unloading and lading.
- Unmarried persons :
 - services to unmarried parents—
 - effective patterns (speech), 3865
 - national trends (speech), 3866
 - taxation of single persons, tax reform hearings—
 - summary of problems, 7989
 - summary of testimony, 15348
- Up and down drugs, amphetamines and barbiturates, 7430
- Upham, Charles W., soil survey of Plymouth County, Mass., 14879
- Upham Brook :
 - flood plain information, 12480
 - technical appendix, 12481
- Upholsterers :
 - automobile, employment outlook, 4478
 - furniture, employment outlook, 4511
- Upland cotton, *see* Cotton.
- Upper air, *see* Atmosphere.
- Upper atmosphere, *see* Atmosphere.
- Upper Flint River :
 - flood plain information, 9696
 - floods, Atlanta, Ga., how to avoid damage, 12541
- Upper Great Lakes Regional Commission :
 - Federal Cochairman, nomination of Alfred E. France, hearing, 9493
 - press releases, 3331
- Upper Klamath National Wildlife Refuge, general information, 16446
- Upper Volta :
 - background notes, 14900
 - economic trends and their implications for United States, 7103
- Upwash patterns on ablating and nonablating cones at hypersonic speeds, 13121
- Upwind-downwind-crosswind sea-clutter measurements, 14748
- Uranium :
 - argon-tungsten and argon-uranium induction heated plasmas, experimental investigation of spectral emission characteristics, 8593
 - argon-uranium plasma, theoretical investigation of composition and line emission characteristics, 10073
 - chemical stabilization of uranium tailings at Tuba City, Ariz., 14552
 - deposits in Mexico, 3807
 - distribution in igneous rocks of Boulder batholith region, Mont., and its bearings on radiogenic heat production and heat flow, 15805
 - eluting uranium from ion exchange resins with improved Eluex process, 4648
 - enrichment—
 - AEC's gaseous diffusion plants, future ownership, selected materials, 10687
 - selected background information, 7695
 - exploration and production—
 - activities in United States (remarks), 1609

- Uranium—Continued
 exploration and production—continued
 supplement to facts concerning,
 prospecting and exploring for radioactive
 substances, 940
 geology of deposits in Dripping Spring
 Quartzite, Gila County, Ariz., 5720
 mining, radiation standards, hearings,
 9244
 molten, compatibility with tungsten and
 tungsten-1.5 percent hafnium, tests,
 6020
 natural vegetation of uraniferous deposits
 of Cuyo region, possible influence of
 radiation, 5135
 radon 222 near uranium tailings piles,
 evaluation, 17333
 reconnaissance, preliminary—
 Alabama, Georgia, Mississippi, Tennes-
 see, Virginia, and West Virginia,
 13712
 Arkansas, Illinois, Kentucky, Michigan,
 Minnesota, Missouri, Ohio, and
 Wisconsin, 13709
 Connecticut, Maine, Massachusetts,
 New Jersey, New York and Vermont,
 7701
 Kansas, Nebraska, and Oklahoma, 13710
 Maryland and Pennsylvania, 13711
 North and South Carolina, 13713
 supply and demand (remarks), 16634
 transfer, application of safeguards by
 United States, agreement with Canada,
 8890
 underground uranium mines, radiation-
 ventilation relationships, 11377
 water load, at selected gaging stations,
 14371
 Uranium dioxide:
 and water under nonisothermal, quasi-
 isobaric conditions, chemical reactions
 between, experimental investigation,
 5137
 ceramic fuel elements, fission-product gas
 pressure estimation, 2223
 chemical reactions between uranium di-
 oxide, most abundant fission products,
 water and sodium, study, 1597
 vent loss in externally fueled thermionic
 reactor concept, 1134
 Uranium hexafluoride, handling procedures
 and container criteria, 7692
 Uranium isotopes, U-236 and neptunium-
 237, effect on value of uranium used as
 fuel for thermal power reactors, 189
 Uranium nitride, fabrication of cermets
 from mixed powders, and coated particles,
 7294
 Uranus (planet):
 direct trajectories to Jupiter, Saturn,
 Uranus, etc., general discussion, con-
 tour charts, planetary flight handbook,
 13058
 Jupiter swingby missions to Saturn,
 Uranus, etc., general discussion, con-
 tour charts, etc., planetary flight hand-
 book, 11426
 Ursek, Donald C., investigation of two-
 phase hydrogen flow in pump inlet line,
 13079
 Urban, Walter M., radiation pasteurization
 of fresh meats and poultry, 5151
 Urban, C. M., emulsified fuels, characteristics
 and requirements, final report, 9058
 Urban, Francis S., agricultural prospects in
 Central America, 12420
 Urban areas, *see* Cities and towns.
 Urban Housing, President's Committee on,
see President's Committee on Urban
 Housing.
 Urban life, *see* Cities and towns.
 Urban Mass Transportation Administration:
 Administrator, nomination of Carlos C.
 Villarreal, hearing, 6778
 appropriations, 1970, hearings, 16810
 Urban Mass Transportation Administra-
 tion—Continued
 research, development & demonstration
 projects, directory, 17433
 Urban planners, *see* City planners.
 Urban planning, *see* Redevelopment (city
 planning, etc.).
 Urban policy, *see* Redevelopment (city plan-
 ning, etc.).
 Urban Problems, National Commission on,
see National Commission on Urban
 Problems.
 Urban renewal, *see* Redevelopment (city
 planning, etc.).
 Urea, consumed by cattle on feed, 1965-66
 feeding year, 4154
 Uremia, chronic, research program, oppor-
 tunities for participation, 13175
 Urethanes:
 foam corner pads, container effects in
 cushioned packages, 17037
 polyurethane foams, technology, properties
 and applications, 12376
 Urethritis:
 nongonococcal urethritis associated with T
 strains of mycoplasma, 14511
 TRIC Agent, serological fluorescent anti-
 body and associated findings, report,
 14517
 Uric acid, serum levels and leadership in
 Marine Corps, 14508
 Urinalysis, *see* Urine.
 Urinary organs, prevent urinary tract infec-
 tions in your hospital, 16366
 Urine:
 screening for bacteriuria, 13372
 testosterone, determination by utilizing
 column and gas-liquid chromatography,
 3714
 urinary ammonia, automated microanaly-
 sis, 3700
 Uruguay:
 agricultural commodities, agreement, 2494
 economic trends and their implications for
 United States 7102, 15879
 economics, basic data, 3903
 USA tour manual, 1483, 8926
 USAAVLABS, *see* Army Aviation Materiel
 Laboratories.
 USAF, *see* Air Force.
 USAFI, *see* Armed Forces Institute.
 Usage of combined airman certification by
 active airmen, 210
 USASCAF pamphlet, 3786
 USASCI, *see* American standard code infor-
 mation interchange.
 Usategui, Augusto G., relief, 10833
 USDA, *see* Agriculture Department.
 Usdin, E., study of biological desalination
 phenomena, salt transport mechanisms of
 selective avian salt glands, 9970
 Usdin, Earl, psychotropic drugs and related
 compounds, supplement, 14802
 Use of radium in consumer products, 6188
 Useller, James W., clean room technology,
 13061
 User's manual for SORAC computer program,
 12724
 Usery, Willie L., Jr., nomination, hearing,
 5462
 USIA, *see* United States Information Service.
 Using volunteers in court settings, manual
 for volunteer probation programs, 4931
 USMA, *see* Military Academy, West Point.
 Usry, J. W., performance of towed, 48-inch-
 diameter (121.92-cm) ballute decelerator
 tested in free flight at Mach numbers from
 4.2 to 0.4, 5990
 USSR, *see* Union of Soviet Socialist
 Republics.
 USTS, *see* United States Travel Service.
 Utah:
 apples, marketing order authority, extend,
 report, 16871
 ASCS annual report, 11851

Utah--Continued

- census of business, 1967--
 - retail trade, area statistics, 9112
 - selected services, area statistics, 15096
 - wholesale trade, area statistics, 15110
- climatological data, 2662
- electric rate book, 11076
- Federal outlays, report of Federal Government's Impact by State and county, 9576, 9626
- Federal-State partnership for economic growth, Four Corners Regional Commission, 9870
- Idaho-Utah power interruption, Dec. 22, 1967, report, 12619
- Indian vital statistics, 10318
- mineral and water resources, report, 7993
- print as Senate document, 6761
- mineral industry, minerals yearbook chapter, 2164
- precipitation data, hourly, 2962
- southeast, BLM lands, recreation and wildlife, 12988
- Southern Utah and Goshute Valleys, selected hydrologic data, 14361
- Sunnyside coal, use of antifissurants in making better coke from, 4653
- water supply outlook and snow surveys, 3589
- Utica, N.Y., area wage survey, 2113
- Utilities, staffing for nuclear power, 16630
- see also* Electric utilities--Public utilities.
- Utility Consumers' Counsel Office:
 - establish, hearings, 5449, 6789, 9467, 12301, 14038
 - print additional copies, report, 12275
- Utility man 1 & C, Navy training course, 10246
- Utility staffing for nuclear power, 16630
- Utility trucks, rigging for airdrop, Army technical manual, 1582
- Utley, Robert M., Golden Spike, 8725
- Utter, Carol M., spendable earnings series, technical note on its calculation, 10033
- Uweinat, Gehel, Libyan Desert, habitats, floral, mammals and wasps 13423
- Uyemura, Jimmie K. and others, relief, 18764
- Uzbek Soviet Socialist Republic:
 - Academy of Sciences, foundation and development, 4447
 - CP official addresses, Estonian arts festival, 0287

V

- V.A., *see* Veterans Administration.
- Vaaler, L. E., scale control with graphite heat-transfer tubes of controlled permeability to steam, phase 2, 4402
- Vacation pay, *see* Wages.
- Vacations:
 - vacation ideas, outdoor trek is on! list of publications, 10294
 - vacation work permits for minors in District of Columbia, report, 12184
- see also* Holidays.
- Vaccination, assistance act of 1969, hearing, 14054
- Vaccine, virus vaccine production, cell cultures for, conference, 6061
- Vacek, Milos, mortality trends in Czechoslovakia, 17358
- Wacher, Carole D., comprehensive community mental health center, annotated bibliography, 16338
- Vacuum:
 - back flow from jet plumes in vacuum, 2266
 - distillation method, use in determination of oxygen in lithium, 8646
 - dogs exposed to near-vacuum pressures, intraocular dynamics, 1549
 - effect of physical parameters on reaction of graphite with silica, 2174
 - forces and moments due to air jets exhausting parallel to large flat plates in near vacuum, 8630

Vacuum--Continued

- friction and contact resistance during sliding in vacuum of some low-resistivity metals lubricated with sputtered molybdenum disulfide films, 13124
- high-voltage vacuum breakdown--
 - Influence of electrode material, 1568
 - statistical experiment, design and analysis, 3742
- melting, residual gas analysis, mass spectrometry, 14556
- rapid vacuum evaporation system, 6361
- sliding friction of copper alloys in vacuum, 1065
- thermal-vacuum test of flight model spacecraft, time required for adequate test, 2232
- thorium metal preparation by vacuum distillation of electrodeposited thorium-chromium and thorium-manganese alloys, 10066
- UV detector-spectroscopy systems for capsule reentry measurements, evaluation, 5975
- vacuum freezing vapor-compression process, 1 and 5 million gallon per day desalting plants, 11287
- vacuum gage calibration from 10⁻⁸ to 10 torr, volume-ratio system, evaluation, 14644
- vacuum of rate-of-rise outgassing measurement technique, experimental study, 4711
- Vacuum gages, hot cathode ionization type, empirical observations on sensitivity, 11484
- Vacuum pumps, *see* Pumps.
- Vagal nerve, *see* Nerves.
- Valentine, Lonnie D., Jr.:
 - relationship between airman qualifying examination and Armed Forces qualifying test norms, 5069
 - revision and standardization of radio operator composite, 15055
- Validity (psychology):
 - human visual sampling processes, simulation validation study, 2208
- Valien, Preston, higher education amendments of 1968, 4174
- Vallerie, Leroy L., peripheral vision displays, 2201
- Valley of Fire State Park, land conveyance, report, 13991
- Valuation, donated property, tax information, 5780
- Value-added tax for United States, negative view (remarks), 2533
- Value engineering:
 - concepts, etc., handbook, 5516
 - Defense Department in-house conference role of value engineering in support of defense management objectives, 4127
 - management improvement, design or manufacture simplification performed by contractors, opportunities for increased savings, Defense Dept., GAO report, 14321
 - management of value engineering in defense contracts, course book, 5496
- Values, *see* Worth.
- Val Verde County, Tex., geology of Comstock-Indian Wells area, 4364
- Values:
 - Federal Item Identification guides for supply cataloging, supplements, 2845
 - fluidic vortex valve servoactuator development, 15056
 - fuel-control for use in airbreathing engine research, dynamic performance analysis, 13112
 - general purpose, and drain cocks, Federal item identification guide, 4131, 8129, 16920
 - position, effect in sidewall port filling system, Newburgh Lock, Ohio River, 1827

- Valves—Continued
 regulating, general information, Federal item identification guide, 15522
 schedule for surface ships, military standard, 1790
 special valves, Federal item identification guide, 15516
- Van Buren, Martin, letters of application and recommendation during administration, pamphlet to accompany microcopy, 1162
- Van Buren County, Ark., community profile, 15608
- Van Cleave, Charles D., late somatic effects of ionizing radiation, 3812
- van der Korst, J. K., arthritis and rheumatic diseases abstracts, 2607
- Van Deusen, B. D., experimental verification of surface vehicle dynamics, 16126
- Van Deusen, James L., periodic growth of pole-sized *Ponderosa* pine, 694
- Van Dolah, Robert W., development of slurry explosives for use in potentially flammable gas atmospheres, 977
- Van Doeren, R. E., input admittance and reflection coefficient of circular aperture in ground plane covered by homogeneous dielectric or plasma slab, 1008
- Van Doren, Mark, lecture, Jan. 8, 1968, 10036
- Van Dusen, Richard C.:
 addresses, etc.—
 Sept. 23, 1969, 15840
 Oct. 3, 1969, 15839
 Oct. 15, 1969, 17090
 Oct. 21, 1969, 17077
 nomination, hearing, 5431
- Van Haverbeke, David F., release benefits hardwoods in crowded shelterbelts, 9867
- Van Huu Nguyen, *see* Nguyen Van Hue
- Van Keulen, Gall, basic data on economy of Switzerland, 5291
- van Ligten, Raoul F., holographic microscopy for determination of failure mechanisms in monolithic circuits, 13031
- Van Ness, William J., national policy for environment, 4086
- Van Staveren, Theodore D., conferring citizenship posthumously, 4037, 9279, 12085
- Van Valin, Charles C., silanes as cloud stabilizers, 9721
- Van Wyk, R., variable mesh methods for differential equations, 2203
- Vanadium:
 electrorefined vanadium, some strain-aging effects, 4643
 interactions of titanium and molybdenum additions with interstitial impurities in vanadium, 10063
 mineral industry survey, monthly, 3569
 minerals yearbook chapter, 13031
 solubility in liquid potassium, 7270
- Vance, A. M., lawn insects, how to control them, 5036
- Vanes, laboratory vane shear and fall-cone devices, comparison of shear strength measurements, 13245
- Vapor, *see* Water vapor.
- Vapor-deposition, *see* Vapor-plating.
- Vapor-plating, vapor-deposited materials, evaluation of technique for measuring ion energy loss, 16179
- Vapor pressure:
 metal halides, 16105
 vapor pressures of liquid titanium, 2,008° to 2,379° K, and liquid platinum, 2,045° to 2,442° K, 11386
- Vaporization:
 vapor phase oxidation of hydrocarbons, 13284
 vaporization and decomposition kinetics of candidate re-entry blackout suppressants in low-pressure flames, 14567
 vaporization of oil during gas cycling, effects of pressure, temperature, and type of oil, 11392
- Vapors:
 carbon dioxide and water vapor transmission, polyominal representation, 6920
 gas turbine powered vapor compression plant for evaporation of seawater, design and economic study, 2006
 high temperature cesium vapor thyatron, reduction of recovery time, 16133
 thermionic converters with chloride vapor deposited tungsten emitter (110) and nickel collector, characteristics, 14587
 vacuum freezing vapor-compression process, 1 to 5 million gallon per day desalting plants, 11287
 vapor compression test bed plant, Roswell, N. Mex., annual report, 9963
 vapor ingestion phenomenon in weightlessness, 10130
- Vardiman, R. G., dislocation pipe diffusion in silver single crystals, 14745
- Vargas, Orlando Fajardo, *see* Fajardo Vargas, Orlando.
- Variability of bottom reflected signals, using deep research vehicle Alvin, 13213
- Variables (mathematics):
 combined Newton-Raphson and gradient parameter correction technique for solution of optimal-control problems, 1147
 estimation of variance by recursive equation, 16198
 variable mesh methods for differential equations, 2203
- Variance analysis:
 pseudoreplication, evaluation and application of balanced half-sample technique, 6209
 tables of bias functions, B_1 and B_2 for variances based on finite samples of processes with power law spectral densities, 4765
- Variation (biology):
 intraspecific variation of *Spinacopia*, new genus of Myodocopid Ostracod (Sarsiiellidae), 13421
- Variety stores, *see* Stores.
- Varnish and varnishing, current industrial reports, 2732
- Vary, Alex, corrosion in cobalt alloy, two-phase mercury loop, 13109
- Vatican City State, background notes, 14901
- Vaughan, James A., impact of computers on small and medium-sized banks, 630
- Vavra, Helen M., diabetes source book, 17334
- Veal, fresh, USDA institutional purchase specifications, 9503
- Vectors (biological):
 living vectors, regulating shipment, 52
- Vectors (mathematics):
 graphic method for determining absolute attitude of sounding rocket vehicles, 10118
 matched-conic solutions to round-trip interplanetary trajectory problems that insure state-vector continuity at all boundaries, 4705
 probability density functions of n vectors added with random directions, 16316
 systematic errors in ultrasonic propagation parameter measurements, 10265
- Vegetable oils, *see* Oils.
- Vegetable products, *see* Agricultural products.
- Vegetables:
 acreage marketing guide, 6805
 canned and frozen, how to buy, 10482
 commercial, fresh market and processing in principal producing areas, usual planting and harvesting dates, 10476
 culture, etc., publications, price list, 2405
 disinfection by gamma irradiation dosimetry, tolerance and shelf life extension, annual report, 1606
 Florida, marketing, 1968 summary, 510

Vegetables—Continued

- fresh—
 - fruit and vegetable industry, guidelines for seasonal industry determination, 17437
 - prices, 1968, Chicago and New York City, 10501
 - shipments by States, etc., 9495, 12324
 - unloads—
 - eastern cities, by commodities, States, etc., 6807
 - for 41 cities, 8098
 - midwestern cities, by commodities, States, etc., 6809
 - southern cities by commodities, States, etc., 6810
 - western cities, by commodities, States, etc., 6808
- fresh market—
 - acreage and estimated production, monthly report, 3571
 - acreage, production, etc., 2508
 - market news, weekly summary, 2924
 - home canning, 13588
 - home freezing, 13589
 - how to use USDA grades in buying, 6394
 - insects and diseases in home garden, 1505
 - irradiation, 5149
 - leafy, aphids, how to control them, 16537
 - match supply with demand to market vegetables successfully, 4104
 - minigardens for vegetables, 5044
 - processed—
 - and related products, regulations governing inspection and certification, 12329
 - plants under USDA continuous inspection, list, 15481
 - standards for grades, 1761
 - processing—
 - 1968 annual summary, 8909
 - statistical report, 3572
 - protection of rail shipments, 10475
 - seeds, foreign agriculture circulars, 2902
 - spring, acreage marketing guide, 503
 - summer and fall, for commercial processing, 6804
 - trade and tariff information, 2511
 - vegetable products, trade and tariff information, summaries, 11739
 - vegetable situation, 3570
 - vegetables in family meals, guide for consumers, 11868
 - winter, acreage marketing guides, 14063
 - see also names of vegetables.

Vegetation :

- control on roads and highways, highway research and development news, 13386
- natural vegetation of uraniferous deposits of Cuyo region, possible influence of radiation, 5135
- radiation doses and short-term effects from close-in fallout, 13707
- radiosensitivity of certain perennial shrub species based on study of nuclear excavation experiment, Palangnin, with other observations of effects on vegetation, 9064
- Sierra Ancha Experimental Forest, Ariz., 696
- Wake Island, description, 8851

Vehicles :

- commercial, cost reductions obtainable by improving management of maintenance, 704
- deep research vehicle Alvin, used to investigate variability of bottom reflected signals, 13213
- economic assistance funds improperly used to finance for defense requirements, International Development Agency, GAO report, 15778
- Eldorado National Forest, vehicle control area map and vehicle use rules in area, 14270

Vehicles—Continued

- equipment components, Federal item identification guides for supply cataloging, supplements, 2842
- high speed, use of surface waves in communicating with, 12574
- land vehicles—
 - animal draft appliances, classification definitions, 4843
 - wheels and axles, classification definitions, 1294
 - low emission, search, staff report, 8059
 - maintenance at non-personnel offices, facilities handbook, 1306, 2394, 13318, 16327
 - orbital lifting, non-linear longitudinal dynamics, 17209
 - portable corral-transport, 6389
 - surface vehicle dynamics, experimental verification, 16126
 - wheeled, and equipment, inspection, care, and preservation during storage, military standard, 8138
 - see also Aircraft—Interplanetary vehicles—Lunar roving vehicles—Motor vehicles—Rockets—Spacecraft.
- Vela Uniform program, Project Dribble, Salmon event, seismic decoupling at nuclear level, experiment, Tatum Salt Dome, Miss., 9074
- Velkoff, H. R., exploratory study of nature of helicopter rotor blade boundary layers, 16602
- Velocity :
 - acoustic velocity meter for measurement of net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use, 14372
 - approximation to statistics of midcourse velocity corrections, 16159
 - axisymmetric initial velocity distributions with application to hypervelocity impact, response of infinite elastic plate, 8621
 - boundary effects of uniform size roughness elements in two-dimensional flow in open channels, 4214
 - charts for interpolation of local skin friction from experimental turbulent velocity profiles, 10099
 - convected balanced arc, experimental and theoretical analysis, 4681
 - coupling, role in solid-propellant combustion instability, 14639
 - detonation, of desensitized nitroglycerin in simulated underground fractures, 13023
 - experimental stagnation-point velocity gradients and heat transfer coefficients for family of blunt bodies at Mach 8 and angles of attack, 11444
 - FORTTRAN program for calculating—
 - magnified region on blade-to-blade stream surface of turbomachine, 8616, 14603
 - velocities and streamlines on blade-to-blade stream surface of a tandem blade turbomachine, 8611
 - hypervelocity impact analysis by method of characteristics, 4754
 - jet velocity and axial location of nozzle exit, effect on performance of twin-jet afterbody model at Mach numbers up to 2.2, 16161
 - laser doppler velocity instrument, 2187
 - linearized velocity corrections, second-order errors in, and their effects on rate of convergence of iterative solutions, 6003
 - profile measurements of free-stream flow in Langley pilot model expansion tube by photoionization, 2241
 - sound in water, dependence on depth, and sound generation by surface waves considering bottom reflections, USSR study, 15929
 - sound velocity cross sections of world's oceans, eastern North Pacific, 13236

- Velocity—Continued
transonic, on blade-to-blade stream surface of turbomachine, FORTRAN program for calculating, 16176
unaccelerated geocentric velocities and influx rates of sporadic photographic meteors, 10148
various lubricated lip seal designs at peripheral velocity of 120 feet per second, torque and leakage rates, 14647
- Vending machine mechanics, *see* Mechanics (persons).
- Vending machines:
coin operated, current industrial reports, 9152
shipments, 1958-67, patterns of industrial growth, 9097
- Venditti, John M., cancer chemotherapy reports part 2, 2643
- Vendors and purchasers:
licensed vendor listing, Post Office Dept., uniform allowance program, 11592
selection of purchasers for residential properties sold by Federal Housing Administration, GAO review, 7036
- Veneer logs, *see* Logs.
- Veneers:
Black Hills ponderosa pine for veneer, preliminary evaluation of small-diameter trees, 5669
Federal item identification guides for supply cataloging, supplements, 2845
hardwood, production in opportunities in Tennessee Valley, 7546
hardwood veneer timber volume in upper Michigan, 11173
- Veneral diseases, current literature, abstracts and bibliography, 2734
- Venezky, D. L., thermal stability of ethylenedinitrilotetraacetic acid and its salts, rate of decomposition in aqueous solution determined by NMR techniques, 1267A
- Venezuela:
capsule facts for Armed Forces, 3722
economic trends and their implications for United States, 8469, 14419
mineral industry, minerals yearbook chapter, 2165
selling in Venezuela, 10645
- Venn, Grant, address, Feb. 21, 1969, 16955
- Venom:
differential resistance of mice at various time levels to lethality of rattlesnake venom (*Crotalus atrox*), 84
snake envenomation, cryotherapy treatment, 14507
- Ventana Wilderness in California:
designate as wilderness area, proposal—
hearing, 5451
law, 152206
reports, 6773, 12196
- Ventilation:
control of respirable coal mine dust by ventilation, studies, 17179
face, in underground bituminous coal mines, 4644
ventilated rail and truck shipments of dry onions, loading patterns, 7
see also Mine ventilation.
- Venting of liquid hydrogen tankage, 11474
- Vents, effects of vent holes on strength of fiberboard boxes and fruit cooling rate, 6357
- Ventura County, Calif.:
flood hazard along Santa Clara River, Saticoy to Pacific Ocean, 12447
flood water information, 9688
- Venturi tube, sealed venturis, prediction of thermodynamic effects of developed cavitation based on liquid-hydrogen and freon-114 data in, 1116
- Venus (planet):
radiophysical investigations, 16208
- Vereammer-Grandjean, P. H., chigger mite of Far East, 1592
- Verde River, water supply outlook and snow survey, 3583
- Verdigris River, lock and dam no. 17, designate Chouteau Lock and Dam, report 15370
- Vermillion, Charles H., weather satellite picture receiving stations, inexpensive construction of automatic picture transmission ground equipment, 13063
- Vermont:
Agricultural Stabilization and Conservation Service, annual reports, 10473, 11852
census of business, 1967—
retail trade, area statistics, 6494
selected services, area statistics, 15097
wholesale trade, area statistics, 11992
electric rate book, 648
Federal outlays, report of Federal Government's impact by State and county, 9577, 9627
mineral industry, minerals yearbook chapter, 969
New Hampshire interstate school compact—
law, 10683
reports, 7935, 8036
pollution of interstate waters of Lake Champlain and its tributary basin, conference proceedings, 14240
timber resources, 700
uranium, preliminary reconnaissance, 7701
- Vernon, Vt., water resources appraisal for hydroelectric licensing, 8211
- Vernon County, Wis., soil survey report, 16439
- Verrall, A. F., preservative treatments for protecting wood boxes, 12708
- Verry, E. S., water storage and related physical characteristics of 4 mineral soils in north central Minnesota, 17023
- Vertebrates, lower, neoplasms and related disorders, 6258
- Vertical takeoff aircraft, *see* Aircraft.
- Vetifelle, Elizabeth C., or helrs, relief, 9393
- Vertigo, modification of vestibular nystagmus and vertigo by visual stimulation, 11971
- Very low frequency, *see* Frequency band.
- Vessels, *see* Boats—Fishing vessels—Shipbuilding—Ships—Tankers.
- Vessels (utensils):
spherical vessel, explosion development, 13024
thermal and radiation shielding of reactor vessel, USSR study, 12952
- Vestibular apparatus, adaptation to vestibular disorientation, head position influence on habituation of vertical nystagmus, 209
- Vestibular system, dynamics of, and their relation to motion perception, spatial perception, and illusions, 7239
- Vestibular tests, vestibular reactions in weightlessness, possible patterns, USSR study, 2090
- Vestnik of USSR Academy of Medical Sciences (periodical), 3573-74
- Veterans:
adopted child, amend definition of term, report, 16770
Air Force, postservice employment assistance program for overseas terminal assignees, 10519
benefits—
apprenticeship or other on-job training for those with service since Jan. 31, 1955, pamphlet, 6341
available for veterans and dependents, fact sheet, 6336
brief explanation, 8932
contact representatives handbook, changes, 2536, 16521
educational assistance for veterans with service since Jan. 31, 1955, summary, 7557

Veterans—Continued
 benefits—continued
 educational, laws providing, amend-
 ments, hearings, 7978
 employment benefits and opportunities,
 summary, 7558
 for those residing overseas, 16825
 pension and bounty-land warrant files in
 National Archives, 6030
 slide-rule calculator, 9375
 print additional copies, reports, 7912,
 9417
 State laws, digests, 5383
 technical corrections in title 38, United
 States Code—
 law, 12109
 reports, 5355, 10844
 veterans with service since Jan. 31,
 1955, and their dependents, summary,
 498, 13517
 best bets for returning veterans in Wash-
 ington, D.C. area, 5253, 9186
 care and treatment in State homes, in-
 crease Federal payments, reports, 9318,
 16867
 disabled—
 compensation for disabilities, 6339
 nursing home care, extend—
 hearings, 15476
 reports, 9314, 9316, 16865
 outpatient care, amend U.S. Code re-
 ports, 9317, 16866
 service-connected compensation pay-
 ments, increases, enacted by Congress,
 5438
 education and training programs, increase
 benefits, amend U.S. code, hearings,
 15472
 educational amendments of 1969—
 hearings, 7978
 report, 9295
 educational assistance allowances, in-
 crease rates—
 hearings, 10807
 reports, 12170, 16869
 employ/re-employ, time to serve them,
 16005
 health insurance coverage and preference
 for hospital care, survey, 7979
 home-buying guide, 6342
 home loan program, correct obsolete ref-
 erences in laws, amend United States
 Code, law, 342
 home loans, authority to set interest rates
 on mortgages, extend, reports, 15268,
 15284
 job rights, facts, 2539
 laws, compilation, supplement, 3944
 legislation enacted in 1968, summary, 6235
 loan guaranty benefits for veterans with
 service since Jan. 31, 1955, summary,
 7559
 loans, home guaranty entitlement, in-
 crease, amend U.S. Code hearing, 499
 medically trained, where do you go from
 here? Project REMED, 5546
 national service life insurance, regular
 dividend schedules, 8931
 now, about that job, A B C's for veterans,
 16525
 older veterans medical benefits, amend U.S.
 Code, reports, 9315, 16864
 paraplegics, housing program, modify eli-
 gibility requirements—
 law 10684
 reports, 6764, 9294
 public service career in deprived areas,
 special encouragement, hearing, 499
 reemployment rights, Army National
 Guard and Army Reserve, briefing ses-
 sion and program, 13658
 relief, code of Federal regulations, 9816

Veterans—Continued
 servicemen's group life insurance—
 conversion, 5001
 dismemberment insurance coverage,
 amend U.S. Code, report, 15381
 double indemnity coverage, amend U.S.
 Code, report, 15380
 protect you as a veteran, 2538
 specially adapted housing for veterans,
 questions and answers, 6343
 survivor benefits, indemnity compensation
 and insurance, increase, hearing, 12296
 transferring military experience to civilian
 jobs, study of selected Air Force vet-
 erans, 2103
 today, VA help for recently discharged
 veterans, 4999
 USVAC, assistance centers, 6340
 veterans with mental disorders in VA
 facilities, 17344
 Vietnam era, life insurance program, re-
 port, 15378
 World War I, Veterans Administration
 hospital expenditures, 1919-68, for gen-
 eral medical and surgical conditions,
 428
 youth volunteers, give and gain in volun-
 teer service to hospitalized veterans,
 11768
see also Life insurance—Pensions—Reha-
 bilitation of the disabled.
 Veterans Administration:
 annual report—
 departmental edition, 8928
 document edition, 7840
 appropriations, 1970, hearings, 9332,
 12285
 benefits in brief, 1968, serving those who
 served, 8932
 bibliography series, 1485 6333, 7554,
 8929, 13515
 building management officers, career op-
 portunities, etc., 11767
 career opportunities, dentistry, 4997
 construction of new hospital in southern
 California, hearings, 13943
 contact representatives, h a n d b o o k,
 changes, 2536, 16521
 contract appeals board, contract appeals
 decisions, index-digest, 6334
 convey one acre of Veterans' Administra-
 tion hospital reservation, Dearborn,
 Mich., to heirs of grantors, law, 1681
 cost reductions and management improve-
 ments, 2537
 counseling provided children, opportunity
 for economies, GAO report, 718
 dental residences and internships, work-
 shop, summary of recommendations,
 6344
 handbook series, 2536, 16521
 home loan program, hazardous geologic
 areas—
 hearings, 10787
 report, 15244
 hospital and medical care program, hear-
 ings, 15476
 hospital sites to be acquired before de-
 veloping working drawings and specifica-
 tions for construction of hospitals, GAO
 report, 12747
 information bulletin, IB series, 1486
 insurance field offices, savings available
 through consolidation, GAO report:
 15789
 internal audit activities, need to improve
 and relocate, GAO report, 15784
 librarians, examination announcements,
 287, 6338, 12051
 manuals, 8931, 16523
 medical and hospital program, operation,
 hearings, 9374
 medical care cost accounting system, im-
 provements made, GAO report, 14319
 medical research, reports, 6732, 7555

Veterans Administration—Continued
 medical technologist, examination announcement, discontinuance notices, 3874-75, 5257
 Medicine and Surgery Department—
 opportunities for physicians, 11766
 program of sharing specialized medical resources, amend U.S. Code, reports, 9319, 16868
 mortgage financing, use of NSLI investment funds, hearings, 9373
 national service life insurance modified life, information about conversion and premium rates, holders in V, RS, W, II, and RII programs, 16524
 nursing home care program, need for improvements in administration, GAO report, 15783
 Office of the Chief Attorney, operating procedures, 16523
 programs for sharing medical facilities and exchange of medical information, annual reports, 427
 psychiatry, cooperative studies, conference, highlights, 1486
 psychologists, clinical or counseling, and psychology technicians and aids, graduate student trainees, professional opportunities, 13516
 purchasing, VA invites you to submit your product or service, 17436
 safety and fire protection bulletin, 3404
 servicemen's group life insurance program, legislation needed to avoid servicemen's bearing war-time mortality costs, GAO report, 11217
 standardization of pharmacy items and consolidation of bulk compounding facilities, opportunities for better service and economies, GAO report, 11218
 today, VA help for recently discharged veterans, 4999
 VA-Armed Forces Pulmonary Diseases Research Conference, transactions 1487, 17434
 VA fact sheet IS (series), 6336
 VA monographs, 1488, 11765
 VA pamphlets, 2537-38, 4997-5001, 6337-43, 7556-59, 8933, 10445-446, 11766-769, 13516-517, 14961, 16524, 17435-36
 veterans with mental disorders in VA facilities, 17344
 voluntary service, National Advisory Committee, report of 1969 meeting, 14962
 Veterans Administration Center, Fort Harrison, Mont.:
 real property, cede to Montana, concurrent jurisdiction with United States—
 law, 15194
 reports, 5354, 10879
 Veterans Administration Marketing Center, let's do business, 11769
 Veterans Affairs Committee, House:
 calendar, 3050
 committee prints, 427-428, 7979, 16825
 hearings, 6731, 7978, 9373-74, 10807, 13943, 15335-336
 investigations and studies—
 authorization, report, 5347
 expenses, report, 6668
 proceedings, print, reports, 7913, 9418
 reports, 5353-55, 9294-95, 9314-19, 12170, 15268, 16770-771
 Veterans Affairs Committee, Senate, reports, 16864-865
 Veterans Appeals Board, rules of practice, 14961
 Veterans Canteen Service, financial statement, 1968, GAO audit, 1940
 Veterans hospitals:
 building management officers, Veterans Administration career opportunities, etc., 11767

Veterans hospitals - Continued
 career information—
 dietitians, 6337
 dietitians, dietetic interns, dietetic assistants, 17435
 librarians, 6338
 medical and hospital program, operation, hearings, 9374
 mentally ill patients, family plays important part in treatment, 10446
 programs for sharing medical facilities and exchange of medical information, annual reports, 427
 southern California, construction of new hospital, hearings, 13943
 specialized medical resources sharing program with other hospitals, amend U.S. Code, reports, 9319, 16868
 VA hospital and medical care program, hearings, 15476
 Veterans' Administration expenditures, 1919-68, World War I veterans for medical and surgical conditions, 428
 Veterans Administration need to acquire sites before developing working drawings and specifications for construction, GAO report, 12747
 veterans benefits, for service since Jan. 31, 1955, 8933
 veterans preference for hospital care, survey, 7979
 veterans with mental disorders in VA facilities, 17344
 Veterans of Foreign Wars of United States:
 convention proceedings, 7845
 legislative recommendations, 1969, hearings, 6731
 partners in civil defense, 12028
 Veterans of World War I of United States, Inc.:
 convention proceedings, 5331
 legislative recommendations 1969, hearings, 6731
 Veterans organizations, legislative recommendations, 1969, hearings, 6731
see also names of organizations.
 Veterans pensions, *see* Pensions.
 Veterinarians:
 Agriculture Department, career opportunities, 10488
 employment outlook, 4564
 trainee, summer employment for juniors in veterinary medicine, examination announcements, 293, 13797
 veterinary medical officer, examination announcement, 5264
 Veterinary Biologics Division:
 notice, 21, 5024, 13557
 Veterinary instruments and apparatus, equipment and supplies, Federal item identification guides for supply cataloging, supplements, 2847
 Veterinary medicine, summer employment for juniors, veterinarian trainee, examination announcements, 293, 13797
 Veterinary parasitology, *see* Parasitology.
 Veterinary supplies, *see* Veterinary instruments and apparatus.
 Veterinary zoology, *see* Zoology.
 Veto, presidential, 1789-1968, list, 12245
 VFR, *see* Visual flying rules.
 VHF, *see* Frequency band.
 Vibration:
 aircraft engine components, investigation, 14652
 analysis of 1/40-scale dynamic model of Saturn V-launch-platform umbilical-tower configuration, 1094
 concrete, mechanical impedance measurements, study, 15667
 determining dynamic properties of snow and ice by forced vibration, 15039
 evaluation of sandwich conical shells with fiber reinforced composite facings, 6456

Vibration - Continued

experimental, characteristics of 1/20-scale dynamic model of Saturn V-launch, umbilical-tower configuration, 1093
 flow-induced vibrations of flat plate suspended in narrow channel, 1013
 free, and equilibrium problems associated with centrifugally stabilized disk and shell structures, 2185, 4660
 free, of discretely stiffened cylindrical shells with arbitrary end conditions, theoretical analysis, 11406
 lateral, characteristics, of 1/40-scale dynamic model of Apollo-Saturn V launch vehicle, 1095
 launch vehicles, longitudinal mass-spring modeling, 14620
 mechanical vibrations of shipboard equipment, military standard, 5498
 method for predicting launch vehicle vibration levels in region of space craft adaptor, 4665
 modes and frequencies of orthotropic thin shells of revolution, having general meridional curvature, method for computation, 4710
 molecular vibration spectra from field emission energy distributions, 16174
 non-Newtonian gelled fluids as shock- and vibration-isolation medium, feasibility study, 15055
 normal mode theory for combined structures, 6146
 propagation and damping of sound vibrations on ships, USSR study, 7153
 random vibration prediction procedures, summary, 7236
 shock and vibration bulletins, 1794-95, 4144-45, 12384, 12379-383
 shock and vibration digest, 12385
 shock and vibration monograph series, 12386
 spacecraft vibration tests, development of impedance simulation fixtures for, 10086
 stretch-formed aluminum solar concentrators, investigations, 1108
 supersonic, effects on transistors in subassemblies, 3738
 tests, spectral analysis, prototype study, 14840
 transient, analysis of linear systems using transition matrices, 1035
 ultrasonic, effects on precipitation hardening of steels and superalloys, 7292, 13071
 vibrating beams, transverse shear deformation and rotatory inertia effects, approximate theory, 11407
 vibration-dissociation coupling in fluid flows, simplified molecular model for studying, 17254
 vibration of nearly cylindrical shells, effect of shallow meridional curvature, 11446
 vibration of shaft face seals and stabilizing effect of viscous and friction damage, 8637
see also Oscillations.
 Vice President of United States:
 election—
 amend Constitution relating to electoral college reform, hearings, 6722, 13940, 14048
 direct popular vote, amend U.S. Constitution, proposal, reports, 15227, 15229
 electoral college system reform, 6577
 salary increase—
 law, 16733
 reports, 6656, 8029, 10849
 salary reform, recommendations, message from the President, 3971
 Vice, R. B., sediment movement in area of suburban highway construction, Scott Run basin, Fairfax County, Va., 12796

Vicksburg, Miss.:

flood plain information, 9680
 Fredella Village, low-income housing demonstration project, 5752
 Mississippi and Yazoo Rivers, flood plain information, 12466
 Mississippi River and tributaries in district, stages and discharges, 8181
 Victoria, Tex.:
 flood plain information, 12459
 floods, how to avoid damage, 12520
 Victorville, Calif., flood hazard, Mojave River, San Bernardino County, Calif., 12449
 Victory and occupation, history of Marine Corps in World War II, 16042
 Video recording system, tape recording of ultrasonic test information of ship construction, 2445
 Vienna convention on consular relations with optional protocol, 9384, 16836
 Vierling, Jacqueline, intensification and reduction of Kodak no-screen medical X-ray film, 6138
 Vietnam:
 agricultural commodities, agreement, 6299, 8891, 11711, 19414
 Army civilian employment, living and working conditions, 9050
 background information, 8061
 bibliography, 4426
 commodity import program, U.S. foreign aid, improper practices, report, 6755
 conflict, prisoners of war captured, payment of compensation, amend War claims act hearing, 5378
 county agents in Vietnam, 7610
 difficulties in arranging air support services for U.S. carriers, GAO report, 706
 disposal of United States surplus military property, agreement, 6283
 dye dispersal study, oceanographic cruise summary, 13229
 foreign policy (address), 9942
 government, legislative, judicial, executive, etc., latest developments, public administration bulletin, 12861
 hamlet security, measuring, special study mission, report, 5358
 information notes (series), 1439, 13472
 maps, including indexes, print as House document, report, 10752
 North—
 translations, 3514
 U.S. hults bombing, 1440
 war, air and naval campaigns and Pacific Command-wide support, report, 6440
 pacification in Vietnam, 13472
 peace (address), 10410
 references, selected, 11909
 Republic—
 agricultural commodities, agreement, 16475, 16478
 basic data, 16463
 capsule facts for Armed Forces, 5097
 civilian casualty, social welfare and refugee problems, hearings, 15465
 Coast Guard operations and installations, Congressional investigation, report, 410
 dependents of personnel assigned to Vietnam, customs, free entry privileges in Philippines, 7496
 environmental effects of defoliation, technology assessment, 15331
 U.S. Army in South Vietnam, troop topics, 143
 U.S. assistance program, 1439
 war operations, report, 6440
 index, 15044
 rural income and expenditure sample survey, initial report, 14425
 Seabees in action, pictorial report, 8741

Vietnam—Continued

- veterans—
 - employment benefits and opportunities, summary, 7538
 - life insurance program, report, 13378
- Vietnam and Paris negotiations, post-script—
 - committee print, 8066
 - reports, 469-470
- war, opinions of Asian and Pacific leaders, 132
- war, report, 6440
- index, 15044
- Vietnam, South, *see* Vietnam.
- Vietnamese language, familiarization course, Foreign Service Institute basic course, 13491
- View factors for toroids and their parts, 8610
- Vigil, Richard, relief, 9387, 13886, 16731
- Vigilance, sixty-minute vigilance task with 100 scoreable responses, 14501
- Vignali, J. A., overwater line-of-sight fade measurements at 37 GHz, 8761
- Villarreal, Carlos C., nomination, hearing, 6778
- Villaruel, Cora S., relief, 16845
- Villas, N. J., floods, how to avoid damage, 12489
- Vincent, Lillie, USDA employee newsletter, 3552
- Vine, James D.:
 - element distribution in—
 - Pelozoic black shales and associated rocks, 9885
 - trough and platform types of black shale and associated rocks, 9886
- Vines, ornamental pruning, general information, 5045
- Vinh, Nguyen X.:
 - analytical solutions of class of optimum orbit modifications, 13044
 - non-linear longitudinal dynamics of orbital lifting vehicle, 17209
- Vinifera, *see* Grapes.
- Vinti dynamical problem and geopotential, 8655
- Viola, Herman J.:
 - Interior Department appointment papers, State of Calif., pamphlet, 1166
 - Prologue, journal of National Archives, 10171
 - records of Arizona Superintendency of Indian Affairs, pamphlet, 1167
 - records relating to investigation of Fort Philip Kearney (or Fetterman) massacre, pamphlet, 1169
- Violence:
 - firearms and violence in American life, 13321
 - Puerto Rico, Communist threat to U.S., hearings, 15467
 - rights in concord, response to counter-inaugural protest activities in Washington, D.C., 13325
 - San Francisco State College, shut it down! college in crisis, 13327
 - shoot-out in Cleveland, black militants and police, 13326
 - television programming, FCC policy matters review, hearings, 9453
 - violence in—
 - America, historical and comparative perspectives, 13328
 - literature and as expressed through television character analysis, 9451
 - violent aspects of protest and confrontation, politics of protest, 13324
 - war on campus, eruption of student revolt, the New Left study, memorandum, 9476
 - print as Senate document, report, 9404
- Violence, Causes and Prevention, National Commission on, *see* National Commission on Causes and Prevention of Violence.
- Viral aerosols, *see* Aerosols.

Viral diseases, *see* Virus diseases.

- Virden, John M., employment service review, 2794
- Virgin Islands:
 - annual report, 2001
 - census of business, 1967, manufactures and mineral industries, 13754
 - climatological data, 2662
 - coast pilot, supplement, 5279
 - Governor, nomination of
 - Bove, Peter A., hearings, 8076
 - Evans, Melvin R., hearing, 14044
 - mineral industry, minerals yearbook chapter, 965
 - minimum wage rates, industries, 13524
 - nautical chart catalog, 12060
 - Office of Government Comptroller, reviews of activities, fiscal years, 1966-67, GAO report, 11200
 - water resources development by Army Corps of Engineers, 12554
- Virgin Islands Corporation:
 - financial statements, 1967 and 1968, GAO examinations, 9876
 - liquidation, 12139
- Virgin Islands National Park, general information, 11553
- Virginia:
 - agricultural conservation program, 6369
 - Agricultural Stabilization and Conservation Service—
 - 1967 annual report, 11853
 - 1968 annual report, 11854
 - census of business, 1967, retail trade, area statistics, 15090
 - cetothere skeletons from Miocene Chop-tank formation, 8710
 - climatological data, 2662
 - dealers in trout and pondfishes, list, 13450
 - electric rate book, 1880
 - employment statistics, 1958-66, compilation, 12979
 - Federal outlays, report of Federal Government's impact by State and county, 9578, 9628
 - floods, magnitude and frequency, 9895
 - forest industry opportunities, 6322
 - fossil marine mammals from Miocene Calvert formation, title pages, etc., 8705
 - landings, fish and shellfish, 3575
 - annual summary, 13812
 - mineral industry, minerals yearbook chapter, 5951
 - potential development of central Appalachia, preliminary analysis, 13650
 - Potomac National River, plan for preserving, proposal, 6093
 - precipitation data, hourly, 2962
 - school desegregation, Federal role in selected districts, report, 5245
 - southwest, Pennsylvanian formations, 17070
 - uranium reconnaissance, preliminary, 13712
- Virginia City quadrangle, Nev., geological, geochemical, and geophysical studies, preliminary results, 5707
- Virulence, radio-resistance, and culture characteristics of certain pathogenic bacteria, effect of repeated treatment with gamma rays, final report, 7686
- Virus diseases:
 - indexing procedures for 15 virus diseases of citrus trees, 28
 - neurotropic viral diseases surveillance, National Communicable Diseases Center, annual encephalitis summary, 13357
 - sockeye salmon, identification, cause, etc., 11685
 - viral quantitation by media supplements and buffers, enhancement, 11904
- Viruses:
 - antiviral chemotherapeutic research conducted, USSR study, 2076
 - chemical therapy in virus infections, certain problems, USSR study, 15938

- Viruses—Continued
 endemic viral infections, USSR research, 15986
 harmful effect of 6-azauridine on replication of human cytomegalovirus, USSR study, 12943
 Influenza A2 (Hong Kong) 1/68 virus and its implication in 1968 outbreaks in Soviet Union, 12940
 method for determining virus on surfaces contaminated by virus aerosols, USSR study, 7145
 nucleopolyhedron counts and size frequency distributions, determination by means of Coulter transducer, 4316
 oncogenic virus research, biohazard control and containment, 13168
 vaccine production, cell cultures for, conference, 6061
 virus-cancer research, 4784
see also names of diseases caused by virus.
 Visas, *see* Passports.
 Viscoelasticity, *see* Elasticity.
 Viscosity:
 liquid beryllium, USSR study, 15941
 molten salts, data, 1176
 nonlinear decay of disturbance in unbounded viscous fluid, 2247
 Viscous flow, *see* Flow.
 Visibility, of markings on ground in long-duration earth-orbital space flight, experiments, 2183
 Vision, *see* Sight.
 Visitors:
 cultural exchange visitors, tax information, 8430
 foreign visitor arrivals, statistical summary and analysis, 13514
 HEW visitors information center, 12804
 international, plant tours for welcoming to U.S., list, 4995
 national parks, accommodations furnished by concessioners, list, 10209
 pleasure and business visitors to U.S. by port of entry and mode of travel, 14956, 16519
 potential Visit USA outlets abroad, 4996
 tax information for visitors to United States, 813
 travel patterns of international visitors to United States, 10443
 visit, investigate, purchase, at America's top trade expositions, 9216
 visitor services training series, 13200
 visitors to U.S., data, 14955
 VISTA, *see* Volunteers in Service to America.
 Visual acuity, *see* Acuity.
 Visual flying rules, aviation air traffic patterns, 15679
 Visual inspection guide for rubber O-rings, 541, 10952
 Visual inspection, guide for rubber sheet material, military standard, 5499
 Visual instruction, *see* Audio-visual education.
 Visual perception, *see* Perception.
 Visual stimulus, *see* Stimulus.
 Vital statistics:
 analytical studies, 1351, 17358
 data evaluation and methods research, 6208-9, 7431, 10336, 11641-642, 13379
 data from national health survey, 1352-54, 2432-33, 6211, 7433, 8822, 10338-339, 11643-644, 13380, 16375-277, 17359
 data from National Vital Statistics System, 6212-13, 16378, 17360
 data on national health resources, 1355, 13381
 documents and committee reports, 6210, 7432, 10337
 Indians, 1967—
 Arizona, 8798
 Colorado, 10312
 Iowa, 10313
 New Mexico, 10314
 North Carolina, 8811
 Vital statistics—Continued
 Indians—Continued
 North Dakota, 10315
 Oklahoma, 10316
 South Dakota, 10317
 Utah, 10318
 Washington State, 8824
 programs and collection procedures, 14811
 provisional, monthly report, 3146
 United States, 1356, 8823, 13382, 14812
 1965 annual report, 7434
 United States National Committee on Vital and Health Statistics, report, 6210
 vital and health statistics, 1970 census plans, study group report of Public Health Conference on Records and Statistics, 7432
 vital and health statistics series, PHS publication 1000, current listing, 14785
see also Birth—Death—Divorce—Marriage.
 Vitamins:
 ascorbic acid supplementation effect on tooth mobility, 3711
 pantothenic acid, vitamin B6 and vitamin B12 in foods, 13591
 supplements and formula changes in Abernathy salmon diet, 1966-67, tests, 10401
 Viterbo, Placido, relief, 13872
 Vitola, Bart M.:
 development and standardization of—
 Air Force composites for Armed Services vocational aptitude battery, 10504
 airman classification test, 8998
 Vityaz (USSR research vessel):
 equipment and methods used for geomagnetic studies on 40th and 41st cruises, 8513
 Viva la raza, 5558
 VLF, *see* Frequency band.
 Vocational counselors, *see* Counselors.
 Vocational education:
 act of 1963, vocational-technical education program development for persons with special needs by States, progress report, 6895
 adult vocational training, approved courses
 Indian Affairs Bureau, 14399
 amendments of 1968, resume, 16964
 and occupations, 12442
 annual report, 15644
 bridge between man and his work, 1817
 CINTERFOR, Inter-American seminar on manpower training and development, 12959
 Job Corps men's centers, vocational course offerings, 17141
 Job Corpswomen's centers vocational programs, 5520
 new routes, 6883
 secondary, status in Appalachia, 9018
 transition from school to work in selected countries, 16030
 vocational live-in, 10991
 vocational-technical education, program of
 Education Office, 5017
see also Education.
 Vocational Education, Advisory Council on, *see* National Advisory Council on Vocational Education.
 Vocational guidance:
 computer-based vocational guidance systems, summary of symposium, 16953
 employment outlook for tomorrow's jobs, 4472
 Vocational rehabilitation, *see* Rehabilitation of the disabled.
 Voegeli, Paul T., occurrence and distribution of molybdenum in surface water of Colorado, 15814
 Vofsi, D., water transport in hyperfiltration membranes, 5761
 Vogler, L. E., tropospheric pulse propagation, 15675

- Voice of America, general information, 8924
 Voids, content in glass-filament wound composites, nondestructive testing, 7382
 Volleique, P. G., calculation of organ and tissue burdens and doses resulting from acute exposure to radioactive aerosol, using ICRP Task Group report on human respiratory tract, 5157
 Volatile flavors, *see* Flavors.
 Volcanic ash, tuff, etc.:
 diagenesis of tuffs in Barstow formation, Mud Hills, San Bernardino County, Calif., 14351
 strength and deformation properties at various loading rates, 6907
 Volcanic rocks, *see* Igneous rocks.
 Volcanoes:
 Glacier Peak area, North Cascades, Wash., intrusion and eruption of late Cenozoic magmas, 14347
 Kilauea Volcano, Hawaii, Oct. 1963 eruption, 15804
 northeastern Indian Ocean, 10216
 Voleker, Paul A.:
 addresses, etc.—
 Sept. 3, 1969, 14952
 Sept. 12, 1969, 16518
 Volkin, Howard C., iterated commutators and functions of operators, 1083
 Volpe, John A., nomination, hearing, 5435
 Voltage-regulators, 22-volt silicon voltage-regulator diodes, effects of reactor radiation, 1135
 Voltages:
 high-voltage breakdown in vacuum, design and analysis of statistical experiment, 3742
 nonlinear flux flow in single crystal niobium, 10126
 Volume and yield tables:
 NETVSAL computer program for calculation of tree volumes with interior defect, 4323
 predicting tree d.b.h. from stump measurements in Southeast, 7015
 volume tables and point-sampling factors for—
 loblolly pines in plantations on abandoned fields in Tennessee, Alabama, and Georgia highlands, 8313
 shortleaf pines in plantations on abandoned fields in Tennessee, Alabama, and Georgia highlands, 8317
 Volume-ratio system for vacuum gage calibration from 10^{-3} to 10 torr, evaluation, 14644
 Volumeter for estimating quantity of conifer foliage, 9853
 Voluntary foreign aid programs, 10003
 Volunteer workers:
 Americans volunteer, 7164
 fight hunger in America, donated foods, handbook for volunteers, 9497
 group volunteer service, project report, 7566
 in courts, collected papers on productive programs, 17379
 Michigan minimum wage campaign, role of volunteer organizations, 5007
 mobilization of non-poor volunteers in community action, CAP mission guide, 12401
 returning Peace Corps volunteers, opportunities in Federal service, 13791
 school programs, reveille for volunteers, 6898
 services in mental health, annotated bibliography, 16379
 utilizing in court settings, volunteer probation programs, manual, 4931
 volunteers with vision, 912
 you can help fight hunger in America, food stamp handbook for volunteers, 9498
 youth volunteers, give and gain in volunteer service to hospitalized veterans, 11768
 Volunteers in Service to America:
 if you're not part of the solution, you're part of the problem, VISTA involvement, 16945
 manuals, 5525
 VISTA (periodical), 3576
 VISTA fact book (periodical), 3577
 VISTA volunteer handbook, 5525
 who, what, where, how, VISTA, questions and answers, 8148
 von Ende, Eunice, education, literature of profession, 10977
 von Hake, Carl A., United States earthquakes, 7788
 von Wedel, Francis, relief, 9261
 Voprosy filosofii (USSR periodical):
 translations, 856, 12897
 Vorees, Hugh E., science and society, bibliography, 3809
 Vortex flow, viscous flow in short cylindrical vortex chamber with finite swirl ratio, 7293
 Vortex generators:
 plain blade and effect of vortex generators, experimental investigation in annular cascade sector of highly loaded turbine stator blading, performance, 10075
 plain rotor blade with plough type, vortex generators, performance evaluation, 8599
 Vortex motion, vortex shedding from bodies of revolution undergoing coning motion, 17208
 Vortex valves, *see* Valves.
 Vortman, L. J.:
 close-in air blast from—
 Cabriolet event, 1601
 cratering nuclear detonation in rhyolite, 3804
 Vote scheduled on transfer of 1970 upland cotton allotments, 7603
 Voting:
 information bulletin, 3578
 lowering age to 18, amend U.S. Constitution, hearings, 490
 rights act of 1965, extend—
 hearings, 12234
 report, 15233
 vote for farmers of your choice, 11877
 voter participation in Nov. 1968, current population reports, 5212
 Vranek, James E., prediction of windage power loss in alternators, 1078
 V-STOL (vertical or short takeoff and landing), *see* Aircraft.
 VTOL (vertical takeoff and landing), *see* Aircraft—Airplanes.

W

- W series, 3598
 W.I.P.O., *see* World Intellectual Property Organization.
 W. P. Franklin Dam, Ft. Myers, Fla., test of flushing procedures to control salt-water intrusion, 8359
 Waananen, Arvi O.:
 floods from small drainage areas in California, 8345
 floods of Jan. and Feb. 1969 in central and southern California, 15799
 Wabash River:
 basin, Indiana, Illinois and Ohio, reservoir constructions, etc., engineers report—
 departmental edition, 596
 document edition, 435
 Wachtman, J. B., jr., mechanical and thermal properties of ceramics, 8668
 Wacker, Paul F., microwave spectral tables, polyatomic molecules with internal rotation, 13158
 Wade, William R., design and uncertainty analysis of improved total hemispherical emittance transient calorimeter, 8619

INDEX 1969

Wage and Hour and Public Contracts Divisions:
 directory of offices, 13532
 interpretative bulletins, 2540, 6347, 7560

Wage Appeals Board, decisions, 1964-68, index digest, 14882

Wage chronology, *see* Wages.

Wageman, John M., oceanographic cruise summary reconnaissance survey of Sea of Japan, 10218

Wages:
 area survey—
 Akron, Ohio, 2109
 Albany-Schenectady-Troy, N.Y., 11345
 Albuquerque, N. Mex., 12972
 Allentown-Bethlehem-Easton, Pa.-N.J., metropolitan area, 4592, 17154
 Atlanta, Ga., 16016
 Baltimore, Md., 5901
 Beaumont-Port Arthur-Orange, Tex., 16014
 Binghamton, N.Y., 2115
 Birmingham, Ala., 11349
 Boise City, Idaho, 2117
 Boston, Mass., 4602
 Buffalo, N.Y., 8553
 Burlington, Vt., 11343
 Canton, Ohio, 14456
 Charleston, W. Va., 14454
 Charlotte, N.C., 12967
 Chattanooga, Tenn., 2120
 Chicago, Ill., 892
 Cincinnati, Ohio, 12969
 Cleveland, Ohio, 5903
 Columbus, Ohio, 7178
 Dallas, Tex., 7181
 Davenport-Rock Island-Moline, Iowa-Ill., 4603
 Dayton, Ohio, 10021
 Denver, Colo., 8556
 Des Moines, Iowa, 12968
 Detroit, Mich., 11347
 Fort Worth, Tex., 7180
 Green Bay, Wis., 2118
 Greenville, S. C., 14453
 Houston, Tex., 16021
 Indianapolis, Ind., 10019
 Jackson, Miss., 10024
 Jacksonville, Fla., 8555
 Kansas City, Mo.-Kans., 4604
 Lawrence-Haverhill, Mass.-N.H., 16018
 Little Rock-North Little Rock, Ark., 4599
 Los Angeles, Long Beach and Anaheim, Santa Ana, and Garden Grove, Calif., 16017
 Louisville, Ky.-Ind., 7184
 Lubbock, Tex., 11342
 Manchester, N.H., 2116
 Memphis, Tenn.-Ark., 5908
 Miami, Fla., 7182
 Midland and Odessa, Tex., 11339
 Milwaukee, Wis., 12971
 Minneapolis-St. Paul, Minn., 10026
 Muskegon-Muskegon Heights, Mich., 16019
 New Haven, Conn., 10018
 New Orleans, La., 11341
 Newark and Jersey City, N.J., 10025
 Norfolk-Portsmouth and Newport News-Hampton, Va., 2110
 Oklahoma City, Okla., 4598
 Omaha, Nebr.-Iowa, 7179
 Philadelphia, Pa.-N.J., 10027
 Phoenix, Ariz., 12966
 Pittsburgh, Pa., 11348
 Portland, Maine, 5904
 Portland, Oreg.-Wash., 16015
 Providence-Pawtucket-Warwick, R.I., Mass., 16013
 Raleigh, N.C., 4601
 Richmond, Va., 14452
 Rochester, N.Y., 2114
 Rockford, Ill., 14455
 St. Louis, Mo.-Ill., 12970
 Salt Lake City, Utah, 8554
 San Antonio, Tex., 891, 16023

Wages—Continued
 area survey—continued
 San Bernardino-Riverside-Ontario, Calif., 5907
 San Diego, Calif., 7183
 San Francisco-Oakland, Calif., 10023
 San Jose, Calif., 5905
 Savannah, Ga., 12973
 Scranton, Pa., 4600
 Seattle-Everett, Wash., 10022
 Sioux Falls, S. Dak., 7177
 South Bend, Ind., 11344
 Spokane, Wash., 16020
 Syracuse, N.Y., 897
 Tampa-St. Petersburg, Fla., 2119
 Toledo, Ohio, 11346
 Trenton, N.J., 5902
 Utica-Rome, N.Y., 2113
 Washington, D.C.-Md.-Va., 5906
 Waterbury, Conn., 11340
 Waterloo, Iowa, 8551
 Wichita, Kans., 16020
 Worcester, Mass., 16022
 York, Pa., 10028
 Youngstown-Warren, Ohio, 8552

area wages and living costs, 8561

chronology—
 Bethlehem Atlantic Shipyards, 2112
 Martin-Marietta Corp., 11334
 Massachusetts shoe manufacturing, supplement, 7171
 1924-68, Federal classification act employees, 4596
 Pacific Coast, shipbuilding, 8548
 coordinated Federal wage system, FPM supplement, 1643
 current developments, 2736
 developments in manufacturing, report, 17157

earnings—
 influence of MDTA training, 2104
 statistics, cotton and man-made fiber textile industries, 5909
 employee compensation and payroll hours, cotton and synthetic textiles industry, 12963
 employee compensation, 1966, in private nonfarm economy, 14458
 employee earnings, June 1966 retail trade, 4593
 drug and proprietary stores, 894
 food stores, 893
 employment and earnings, and monthly report on labor force (periodical), 2791

fair labor standards act—
 eating and drinking places, study of effects of \$1.00 minimum, 1968 report, economic effects studies, 5003
 equal pay for equal work, 2540
 minimum wage standards, report, 5004
 overtime compensation, 756
 regulation governing employment of full-time students at special minimum wages, summary, 1490
 farm labor developments, 2821
 Federal classification act employees, 1924-68, 4596
 growth of personal income will decline as rate of increase in prices decline during 1970 (address), 16701

hourly—
 index for hydraulic turbine establishments, 2972
 indexes of change for shipyards, 2973

Industry surveys—
 communications, 7176
 electric and gas utilities, 10017
 footwear, 16024
 hosiery, 4591
 iron and steel foundries, 14457
 leather tanning and finishing, 11336
 men's and boys' suits and coats, 4594
 pulp, paper, and paperboard mills, 5896
 industry wage and union scale studies, 1960-68, directory, 7185

Wages—Continued
 major collective bargaining agreements, paid vacation and holiday provisions, 12964
 manufacturing industry, developments, summary, 3579
 manufacturing production workers earning series, 1939-68, summary, 11335
 Michigan minimum wage campaign, role of volunteer organization in legislative process, 5007
 minimum—
 American Samoa industries, 10447
 District of Columbia act, amend, report 12179
 Puerto Rico—
 agriculture, 13518
 children's dress and related products industry, 13519
 construction industry, 10448
 corsets, brassieres, and allied garments industry, 11771
 fabric and leather industry, 13520
 handkerchief, scarf, and art linen industry, 11772
 hosiery industry, 13521
 hospital and related institutions industry, 13522
 hotel and motel industry, 13523
 laundry and cleaning industry, 10449
 local transit industry, 13525
 men's and boys' clothing and related products industry, 11773
 needlework and fabricated textile products industry, 11774
 1966 coverage enterprises in wage order industries, 13526
 restaurant and food service industry, 13527
 retail trade industry, 10450
 rubber products industry, 13528
 shoe and related products industry, 13529
 sweater and knit swimwear industry, 11775
 textile and textile products industry, 13530
 tobacco industry, 13531
 women's and children's underwear and women's blouse industry, 11776
 raise and extend fair labor standards act, coverage, legislative history, 496
 special, for handicapped workers in sheltered workshops, 1489
 State legislation, to help all workers especially working poor, 11784
 Virgin Islands, industries, 13524
 occupational earnings and wage trends in metropolitan areas, 10029-31, 14467
 occupational earnings in selected areas, 10032
 occupational groups in metropolitan areas, trends, 902
 overtime basic rates for computing, 13533
 overtime pay, basic rates for computing under fair labor standards act, 11777
 prevailing wage requirements on construction of FHA-insured multi-family housing projects, labor standards, 7069
 publications, list, 3191
 railroad employees—
 class 1 railroads, 3580
 taxable compensation and service, 1967, statistical tables, 13390
 seafaring wage rates, Atlantic, Gulf and Pacific districts, 8571
 spendable earnings and purchasing power, monthly release, 3453
 spendable earnings series, technical note on its calculation, 10033
 sugar, harvesting, processing, etc., wage rate determinations, 3474
 sugarcane wage requirements for Florida, 1516

Wages—Continued
 telephone company employees, FCC rules and regulations, 2837
 union—
 building trades, 11337
 local transit operating employees, 8550
 motortruck drivers and helpers, 12965
 wage and benefit developments in manufacturing, 2123
 wage board employees, Federal coordinated wage system, hearings, 413
 wage calendar, 8549
 wage-hour standards, in foreign countries, 5898
 wage trends for occupational groups in metropolitan areas, 5914, 14481, 16031
 wages and related benefits, metropolitan areas, occupational earnings, supplementary practices, 8547
 withholding taxes from your employee's wages, 12841
 women, equal pay, what you want in State bill, 8940
 work incentive program, from welfare to wages, 4467, 14442
 workers covered by State unemployment insurance laws, 2792
 workers under social security, 1960, annual and work history statistics, 2461
 year-round workers with low earnings, 6501
 your social security earnings record, 1403, 8860
 Wages and Industrial Relations Division, publications, list, 3191
 Wagley, Henry O., Jr., deciduous fruit canning in France, 8272
 Wagman, D. D., selected values of chemical thermodynamic properties, 10177
 Wagner, Aubrey J., nomination, hearing, 12320
 Wagner, Charles A., visual simulation image generation using flying-spot scanner, 7300
 Wahlgren, Harold E., survey of specific gravity of 8 Maine conifers, 686
 Wahrhaftig, Clyde, coal-bearing group in Nenana coal field, Alaska, 5703
 Walt, James R.:
 radio science (periodical), 3362
 VLF mode calculations for propagation across a land/sea boundary in earth-ionosphere waveguide, 1833
 Wake Island:
 code, civil administration, Federal aviation regulations, 16981
 change, 8201
 vegetation and flora, 8851
 Wake Island Lagoon, marine toxins from Pacific II, contamination of lagoon, 8851
 Wakeley, Philip C., replacement planting of southern pines unsuccessful, 8303
 Wakes:
 on minimizing wake of droplets, 8603
 wake of 120° cone at Mach number 2.20, experimental flow properties, 13135
 Walburg, Charles H., fish sampling and estimation of relative abundance in Lewis and Clark Lake, 7475
 Walchle, Ray L., development and evaluation of automatic collimator for medical diagnostic X-ray machines, 6191
 Waldo, George F., commercial strawberry growing in Pacific Coast States, 1504
 Wales:
 infant and perinatal mortality, 1351
 west coast, sailing directions, change, 6115
 Walker, B. E., Jr., nondestructive testing for void content in glass-filament-wound composites, 7382
 Walker, Charles E.:
 remarks—
 May 5, 1969, 8919
 Sept. 30, 1969, 16514
 Walker, David B., federalism and the academic community, brief survey, 7565

- Walker, Robert H.:
establishing business in Luxembourg, 10650
foreign trade regulations of Belgium-Luxembourg, 5288
selling in Belgium, 15171
- Walking, be safe, be seen, let's shed some light on pedestrian safety, 14781
- Walkways, rigid pavement for walks, Army technical manual, 10551
- Wall, Brian R., 1967 Oregon timber harvest, 4335
- Walla Creek, Colorado River Basin, Tex., 1966, compilation of hydrologic data, 12765
- Walla Walla Indians, *see* Umatilla Reservation.
- Walla Walla, Wash.:
flood plain information, 12482
floods, general information, 12519
- Walla Walla project:
construction of Touchet division—
hearings, 6791, 9352
report, 6769
- Walla Walla River and Valley:
basin, Washington and Oregon, sediment transport by streams, 15817
tributaries, flood plain information, 12482
- Wallace, Donald L., soil survey, Gallatin County, Ill., 14874
- Wallace, L. E., resistance of varieties of Portuguese wheat, *triticum aestivum* L. em Thell to wheat stem sawfly, 3619
- Wallace, Richard A.:
congressional white paper on policy for environment, 418
electrical properties of electrodialysis membranes, 5763
statement, Dec. 13, 1968, 2531
- Wallace, Sarah L., quarterly journal of Library of Congress, 3355
- Wallace, W. E., experiments on flow of mercury in porous media in transverse magnetic field, 10060
- Waller, Thomas R., two FORTRAN II programs for univariate and bivariate analysis of morphometric data, 7353
- Wallich, Henry C., remarks, Oct. 6, 1969, 17423
- Wallio, H. Andrew, determining physical properties of Martian atmosphere by solar occultation from artificial satellite, 17223
- Wallmark, J. T., MOS field-effect-transistor technology, 996
- Wallmo, O. C., response of deer to alternate-strip clearcutting of lodgepole pine and spruce-fir timber in Colorado, 14284
- Wallowa-Whitman National Forest:
Eagle Cap Wilderness, general information, 12677
facts, 12726
general information, 12725
- Walls, Nancy W.:
physiological studies on *Clostridium botulinum*, type F—
progress reports, 5167, 6472
3 year summary report of progress, 5169
- Walls:
data-reduction technique for determining rapidly rising heating rates to thermally thick walls, 13103
hot-gas-side wall temperatures in rocket engines, thermocouple technique for measuring, 13095
perforated, use, to control shock location and movement in internal-compression supersonic inlet, numerical analysis, 13141
- Walnut River:
flood plain information, 9699
floods in—
Arkansas City, Kans., how to avoid damage, 9702
Augusta, Kans., how to avoid damage, 9703
- Walnut River—Continued
floods in—continued
El Dorado, Kans., how to avoid damage, 12498
Winfield, Kans., how to avoid damage, 9709
- Walrath, Laurence K., remarks, May 8, 1968, 15894
- Walshidae, *see* Moths.
- Walter Reed Army Medical Center, general information, 1593
- Walters, Johnnie M., nomination, hearing, 5455
- Walton, T. R., fire-retardant paint system for nuclear submarine interiors, 14749
- Walton, William C., jr., new matrix theorem and its application for establishing independent coordinates for complex dynamical systems with constraints, 16206
- Wambach, Robert F., fifteen-year growth of thinned white spruce plantation, 11176
- Wamego, Kans., railroad accident, report, 9795
- Wan Nor Kong, *see* Kong, Wan Nor.
- Wanek, Alexander A., geology of proposed powerites at Deer Lake and Kasnyku Lake, Baranof Island, geology of proposed powerites, 9884
- Wang, Chl, nuclear science in mainland China, selected bibliography, 911
- Wang, K. P., mineral industry of mainland China, 16085
- Wanhainen, John P., effect of injection element radial distribution and chamber geometry on acoustic-mode instability in hydrogen oxygen rocket, 14623
- Wapanocca National Wildlife Refuge, general information, 1422
- War:
art of war, selected references, 11913
Communist wars of national liberation, 7371
general, interdisciplinary conference on selected effects, proceedings, 6825
means of mass destruction, protection against, USSR study, 7127
rural fire defense in wartime, mission, organization, coordination, 11881
selected references, 15022
Vietnam, opinions of Asian and Pacific leaders, 132
- War Bonds, *see* Savings bonds.
- War claims, *see* Claims.
- War Department, United States Army in World War II, global logistics and strategy, 4618
- War in the Pacific National Historical Park, master plan, 13194
- War on hunger, monthly news report, 3581
- Ward, F. N., atomic-absorption methods of analysis useful in geochemical exploration, 17071
- Ward, Harvey E., relief, 6601
- Ward, James J., uranium dioxide vent loss in externally fueled thermionic reactor concept, 1134
- Ward, John F., dynamic response of flexible rotor blade to concentrated force moving from tip to root, 16167
- Ward, Lloyd L., jr., relief, 13987
- Wardlaw, Andrew B., achievements and problems of Central American Common Market, 7487
- Ware, George M., wind-tunnel investigation of aerodynamic characteristics of twin-keel parawing, 8647
- Warehouses:
central, packaging produce in trays, 3646
frozen food, affiliated, improve handling methods and layout, 5049
northern Illinois, occupational trends, 14466
operations, handbook, 5651
refrigerated, capacity, 4980
warehouse acts, compilation, 3939

- Warfare, *see* Biological warfare—Chemical warfare—Guerrilla warfare—Submarine warfare—War.
- Warhead missiles, *see* Missiles.
- Warm air furnaces, *see* Furnaces.
- Warm Springs Reservoir, evaporation study, 12769
- Warnecke, G., satellite view of Typhoon Marie 1966 development, 1054
- Warner, James E., what is your community doing for Senior Citizens Month, 1969? 5019
- Warner, John D., fundamental study of predictive display systems, 4684
- Warner, John W., nomination, hearing, 5429
- Warner, Robert W., impact energy-absorbing strut employing tube cutting, 2243
- Warner, Theodore B.:
lanthanum fluoride electrode response in water and in 1M sodium chloride, 13303
measurement of fluoride activity and concentration in seawater using lanthanum fluoride electrode, 14753
- Warning systems:
air-to-ground warning device, 14261
optical pilot warning indicator system, compilation of data from related technologies in development, 10120
- Warnock, R. V., evaluation of titanium-plated steel in chloride environment, 2013
- Warranties and guarantees:
automobile warranties, FTC staff report, 1894
deceptive advertising of guarantees, guides against, 6987
- Warren, Charles R., descriptive catalog of selected aerial photographs of geologic features in areas outside the United States, 7052
- Warren, Cline J., agricultural development and expansion in Nile Basin, 574
- Warren, Forest G.:
farm mortgage debt, 6862
farm mortgage lending experience, 6863
- Warren, M. A., hydrology of Brookhaven Nat'l Laboratory and vicinity, Suffolk County, N.Y., 728
- Warren, Ohio, area wage survey, 8552
- Warren County, Pa., gasflood performance prediction for the Cooper sand of Fork, Run Pool, etc. 11387
- Warsaw, Poland, International Federation of Automatic Control papers presented, June 16-21, 1969, USSR study, 15980
- Warships, naval fighting ships, dictionary, 16304
- Warwick, E. J., farm beef herd, 5032
- Warwick, R. I., area wage survey, 16013
- Washabaugh County, S. Dak., soil survey report, 13447
- Washburn, C. Langhorne:
nomination, hearings, 9452
remarks—
Sept. 15, 1969, 16520
Oct. 9, 1969, 17432
Oct. 16, 1969, 17431
- Washburn, Iowa, motor carrier accident, 13038
- Washers (metal, etc.):
Federal item identification guide, 12360
- Washichek, Jack N.:
water supply outlook and Federal-State-private cooperative snow surveys—Colorado and New Mexico, 3584
Colorado, special snow report, 8868
early season snow report for Colorado, 2466
- Washington, Walter E., nomination, hearings, 5437
- Washington, D.C., *see* Capital of United States—District of Columbia.
- Washington briefing on FDA's drug efficacy review, 5662
- Washington County, Ark.:
community profile, 15609
soil survey report, 10384
- Washington County, Okla., soil survey report, 6248
- Washington International School, Inc.:
conveying District property to—
law, 15211
report, 13999
- Washington Metropolitan Area Transit Authority, appropriations, 1970, hearings, 16810
- Washington Monument, general information, 6095
- Washington National Airport:
air traffic forecasts, 1968-74 fiscal years, 4249
aviation forecasts for 1969-80, 12601
master plan report, 627
- Washington State:
Agricultural Stabilization and Conservation Service, annual report, 11855
Cascade Range, juvenile height growth of four upper-slope conifers, 8306
census of business, 1967—
retail statistics, 9114
selected services, area statistics, 16651
wholesale trade, area statistics, 15111
Christmas tree directory for growers, wholesalers, and retailers, 14254
climatological data, 2662
coast pilot, 297
supplement, 7787
coastal and estuarine waters, environmental factors, 12657
coastal tributaries, Pacific Coast basin, river mile index, 13309
Columbia River basin, Moses Coulee, Crab & Foster Creeks, Okanogan, Sannpoll, Colville, & Kettle Rivers, river mile index, 13310
electric rate book, 4269, 12622
Federal careers in Northwest, 12042-43
Federal outlays, report of Federal Government's impact by State and county, 9579, 9629
forest insect outbreaks, 671, 17014
Indian vital statistics, 8824
mineral industry, minerals yearbook chapter, 2166
portable cesium irradiator operation, 13702
precipitation data, hourly, 2962
seafood moods, recipes, 16714
Walla Walla River basin, transport of sediment by streams, 15817
water resources data, 9924-26
water resources development by Army Corps of Engineers, 9715
water supplies for Coulee Dam National Recreation Area, 9931
water supply outlook and snow surveys, 3590
western Capital Forest, spring-season deer browsing of Douglas-fir, 4315
- Wasps:
controlling, etc., 7590
Egyptian solitary wasps and bees and their associates (Hymenoptera: Aculeata), life history notes, 13430
Gebel 'Uweinat, Libyan Desert, habitats, flora, mammals, and wasps, 13423
- Wasserbauer, Joseph F., dynamic response of Mach 2.5 axisymmetric inlet with engine or cold pipe and utilizing 60 percent supersonic internal area contraction, 13116
- Waste disposal, *see* Radioactive waste disposal—Sewage—Waste products.
- Waste products:
activated sludge process for recycling of human wastes, microbiologic studies, 3696
advanced waste treatment research—
program, summary report, 12664
WP-AWTR series, 12662
basic waste characteristics at winter recreation areas, progress report, 12654

- Waste products—Continued
 batch-feeding studies on high-solids activated sludge for treating human waste, 3708
 community solid waste practices, 1968 national survey, preliminary data analysis, 2424
 continental European solid waste management practices, observations, 17351
 desalination brine waste, study of deep-well disposal, 17094
 dismantling railroad freight cars, study of improved methods with application to other industrial products, 17335
 District of Columbia incinerator project, special studies, 4899
 entrainment drying and carbonization of wood waste, 13026
 extraction of aluminum and fluorine from leached potlining residues, 10065
 industrial waste guide on thermal pollution, 12659
 New Orleans, master plan for solid waste collection and disposal, management demonstration, report, 17342
 organic solid wastes, conversion into yeast, economic appraisal, 13335
 potato waste treatment, symposium proceedings, 12660
 role of packaging in solid waste management, 8814
 solid wastes—
 demonstration grant projects, 1968, summaries, 4901
 disposal—
 collection systems comparing one-man with multi-man crews, study, final report, 11638
 laws, compilation, 493, 5458
 needs and practices, technical economic study, 16374
 using rail haul techniques, feasibility, study, 1722
 management—
 composting, European activity and American potential, 6207
 Fresno area, final report, systems study, 16373
 problems and policy (remarks), 17353
 problems, practices and needs, comprehensive assessment, 16398
 solid resource (address), 15177
 State/interstate solid waste planning grants and agencies, 7428-29
 summary of solid wastes program contracts, 14809
 waste brine from inland desalting plants, deep-well injection, feasibility, 8421
 waste disposal costs at 2 coal mines in Kentucky and Alabama, 7208
 waste heat discharge from new generation of large electric generating plants, hearings, 501, 1744
 print additional copies, report, 9421
 waste water—
 light-catalyzed chlorine oxidation treatment, investigation, 15744
 treatment plants, ozone treatment of secondary effluents from, 15745
 treatment, primer, 17007
 water and wastewater technology, suggested 2-year post high school curriculum, 8176
 water supply and wastewater (remarks), 10331
 Wastler, T. A., national estuarine inventory, handbook of descriptors, 9835
 Watch repairmen, *see* Watchmakers.
 Watches, *see* Clocks and watches.
 Watchmakers, repairmen, employment outlook, 4565
 Water:
 actions for clean water, water pollution problems of Lake Michigan and tributaries, 8265
 Water—Continued
 announcement of water-resources reports, 2592
 asphaltic membranes for seepage control, 14826
 atmospheric water resources program, Project Skywater—
 annual reports, 7439-40
 Colorado River basin pilot project, scientific review plans and design, conference proceedings, 14837
 optimization of operational, weather modification, conference proceedings, 4909
 physics and chemistry of nucleation, conference proceedings, 13401
 production and delivery of cloud nucleating materials, conference proceedings, 8832
 availability seminar, criteria for type 1 comprehensive river basin studies, 10453
 bond sales, 665
 brackish—
 low pressure reverse osmosis membranes and design of small unit, development, 11282
 natural, transport depletion evaluated, 8835
 SUL-bisUL ion exchange process, field evaluation, 9976
 waters for regional, municipal and industrial water supply in west Texas, economics of desalting, 2005
 budget of Carson alley, Nev., 8351
 California, references for well data and water levels by Geological Survey, 14356
 Central Valley project, negotiation of contracts for water, Bureau of Reclamation, GAO report, 717
 chemical reactions between uranium dioxide, most abundant fission products, water and sodium, study, 1597
 chemistry of aluminum in natural water (series), 8383
 clean, cost, economic impact—
 appendix, 9833
 report, 9832
 sewerage charges, 9834
 clean water for America, career opportunities with Federal Water Pollution Control Administration, 1900
 coastal and estuarine—
 environmental factors, bibliographic series, Washington State, 12657
 United States, index to research, 12658
 Colorado—
 early season snow report, 2466
 special snow report, 8868
 Columbia River basin—
 discharge at gaging stations, etc., 3470
 special operating program for Canadian storage, agreement with Canada, 7523
 storage in major power reservoirs, monthly report, 3470
 community water supplies, natural fluoride content, 10194
 conservation—
 around the world, 11673
 districts, status of organization, by States, etc., 1406, 14872
 practices, engineering field manual, 13442
 Texas, 14873
 cooled Mach 4.4 conical nozzle, experimental and theoretical turbulent boundary layer development, 14625
 data, catalog of information, index, 12777
 deep, precise echo soundings, 6912
 demineralization, electrosorption and desorption process, 4404
 demineralized water system for NRL cyclotron, 13274
 dilute solution reactions of nitrate ion as applied to water reclamation, 14245

Water—Continued

- dynamics of water rejection from matrix type of hydrogen-oxygen fuel cell, experimental investigation, 2255
- electro-optical method for proving surface nature of rigid electric dipole of arbitrary colloidal particles, USSR study, 4435
- emergency aircraft procedures over water, 3887
- estuaries, cradles or graves, better water for America, 15741
- factors for phytoplankton blooms and effects on dissolved oxygen in Duwamish River estuary, Seattle, Wash., 7061
- Federal grants for clean water, 5655
- flow and retention of water in layered soils, 8949
- fluoride, report of study, 10295
- fresh—
 - desalting plants inventory report, 795
 - 16 years' exposure of structural ferrous metals in tropical environments, 14744
- geochemistry of water (series), 14371
- ground water—
 - Arena, Luna County, N. Mex., availability, 12758
 - Bosque del Apache Grant, Socorro County, N. Mex. explorations, 12775
 - California data—
 - central coastal subregion, 12772
 - north central subregion, 9897
 - north Lahontan subregion, 9898
 - Sacramento basin subregion, 12773
 - San Joaquin basin subregion, 12774
 - Chad Basin of Bornu and Dikwa Emirates, northern Nigeria, availability, 12757
 - chemical properties and their corrosion and encrustation effects on wells, 8352
 - Clatsop County sand dunes, 9899
 - Egypt's corrosive, selective of metal components for long-term development, 14357
 - exploratory drilling, in western Sokoto Province, Nigeria, 12770
 - Federal Way area, King County, Wash., availability, 9883
 - land subsidence due to withdrawal, Tulare-Wasco area, Calif., 14345
 - levels in U.S., 1962-66, North Central States, 14377
 - lower Great Miami River Valley, Ohio (series), 1969
 - management, scientific or rule-of-thumb techniques, which will prevail, 4356
 - occurrence in basalt of Columbia River Group, The Dalles area, Oreg. and Wash., effect of tectonic structure, 11243
- resources—
 - Santa Ynez upland ground-water basin, Santa Barbara County, Calif., 9900
 - Wind River Indian Reservation, resources, 8382
- shallow, in Rincon and Mesilla Valleys, N. Mex. and Tex., 14354
- tracer well construction and testing, exploratory drilling, and preliminary findings, Geological Survey tracer study Amargosa Desert, Nye County, Nev., 14360
- heat can hurt, better water for America, 15742
- high hub-tip ratio axial flow pump in water to 250°F (394K), effect of fluid temperature on cavitation performance, 11493
- hydrodynamics and water waves, introduction—
 - fundamentals, 14168
 - water wave theories, 14169
- hydrologic and geologic-data collection test well drilling, White Sands Missile Range, N. Mex., 8360

Water—Continued

- intergovernmental responsibilities in metropolitan areas, 8944
- Kahuku area, Hawaii, 12797
- Kansas—
 - for future use, bibliography and inventory of available data, 1365
 - for future use, interim report, 14841
- land and water conservation fund act of 1965, amend—
 - hearing, 9470
 - report, 10850
- load of uranium, radium, and gross beta activity at selected gaging stations, 14371
- major uses, in United States with special reference to agriculture, summary, 568
- man under water, USSR study, 12949
- management, and Weather Bureau, 618
- management for lawn and garden, picture story, 5063
- metals, report of study, 14779
- Millers River basin, Massachusetts basic data report, ground-water series, 8350
- mineral quality prediction of return flow water from irrigated land, research proposal, 11650
- mineralized artesian, effects on fresh-water biota of Taylor Slough, Everglades National Park, Fla., 15795
- Nation's water resources, 1st national assessment of Water Resources Council, 2541
 - summary report, 2542
- net outflow from Sacramento-San Joaquin delta in Calif., feasibility study of use of acoustic velocity meter for measurement, 14372
- outdoor recreation oriented to, socioeconomic factors affecting participation, 8156
- overall performance of tandem-bladed inducer tested in water, 8626
- overwater line-of-sight fade measurements at 37 GHz, 8761
- oxygen demand, report of study, 2434
- Pacific Northwest—
 - average discharge 1953-67, at selected gaging stations and change of storage in certain lakes and reservoirs, 5696
 - current discharge at selected stations, 3470
 - month-end storage in major reservoirs, 3470
 - new reports by Geological Survey, 17072
- water resources—
 - summary, 744, 3237, 17073
 - weekly runoff report, 3238
- Pacific Southwest land and water resources, comprehensive framework study program, 14764
- planet, general information, 17306
- public drinking water supplies, manual for evaluating, 11618
- publications, current list, 14242
- quality—
 - and discharge of streams in Lehigh River basin, Pa., 14374
 - control study, Uinta project, 8264
 - Jensen project, evaluation of impact, 12656
 - mechanics of flow from stratified reservoirs in interest of quality, 14156
 - middle basin tributary streams South Platte River basin, summer 1965, 8266
 - records for Hubbard Creek watershed, Tex., 8364
 - research, selected summaries, 11148
 - standards, better water for America, 9840
- quality improvement act of 1969, report, 7886
- reclamation era, water review quarterly, 2369

Water—Continued
 reconnaissance of ground resources, Ellwood-Gaylota area, Santa Barbara County, Calif., 8356
 research, selected summaries, 664
 research journals, 1967, permuted title index, 2004
 resource development proposals, Interior Dept. to investigate feasibility, report, 12168
 resources—
 Afghanistan, surface water investigations plan, 8358
 Arizona—
 data, 9908-9, 11250
 reports, 10905
 Arkansas, data, 9910
 California, data, 1972, 4369, 15812
 Clark, Cleveland, and Dallas Counties, Ark., 12798
 Colorado—
 data, 8365-66, 15813
 report, 5387
 conservation, code of Federal regulations, 9802
 cooperative research and training, report, 4394
 coordination of—
 planning studies and reports, handbook, 11780
 research, report of meeting, 14830
 De Baca County, N. Mex., 9907
 development by Army Corps of Engineers in—
 Delaware, 12552
 Florida, 11004
 Indiana, 11006
 Kentucky, 11007
 Louisiana, 11005
 New Jersey, 12553
 New York, 14154
 Ohio, 11008
 Puerto Rico and Virgin Islands, 12554
 Tennessee, 9714
 Washington State, 9715
 West Virginia, 11009
 development functions and programs of Corps of Engineers, 15664
 development proposals, Interior Dept. to investigate feasibility, reports, 9416, 15261
 Florida, central and southern, engineers report—
 departmental edition, 603
 document edition, 363
 Florida, data, 14362-365
 Grant and Hot Springs Counties, Ark., 756
 Hawaii, data, 8367
 Idaho, data, 8368
 Illinois, data, 8369
 investigations, selected techniques, 4372
 Iowa, data, 8370, 9911
 Kansas, data, 9912
 Kentucky, data, 8371-72
 Lake Chad basin, reconnaissance, study, 8833
 lower Colorado River, Salton Sea area (series), 5714
 Marine Corps Supply Center area, Barstow, Calif., 9930
 Michigan, data, 754, 9913-14
 Minnesota, data, 755, 8373
 Missouri—
 data 8374-75
 investigations, 9929
 Montana, data, 8376-77, 14366
 Nebraska, data, 9915, 14367
 Nevada, data, 1973, 8378, 12791
 New Jersey, data, 14368
 New Mexico, data, 9916, 12792, 14369
 North Dakota, data, 8379-80, 14370
 nuclear explosives in development and management, potential applications, preliminary, 5171

Water—Continued
 resources—continued
 Ohio, data, 9917
 Onelda and Logan projects, Bear River, Idaho, and Logan River, Utah, development owned by Utah Power and Light Co., appraisal for hydroelectric licensing, evaluation report, 15718
 Oregon, report, 10906
 Pacific area, 8367
 planning act of 1965, river basin commissions established, report, 5332
 policy and political institutions, report of panel on needed research, 6943
 projects, relocating railroad facilities, need to improve policies and procedures, Reclamation Bureau, GAO report, 1949
 Randolph and Lawrence Counties, Ark., 11253
 research catalog, 12827
 research, 1969 Federal program, 4919
 Rio São Francisco Basin, Brazil, reconnaissance appraisal, 1366, 10350-52
 Salmon Falls Creek Basin, Idaho-Nev., 5728
 selected water resources abstracts (periodical), 3430
 Silver City area, Grant County, N. Mex., appraisal, 12790
 soil conservation (periodical), 3443
 South Dakota, data, 9918-20
 Sycamore Creek watershed, Maricopa County, Ariz., 5727
 technical publications, 4910, 11652, 14839, 16392-393
 techniques of water—resources investigation, 15811
 Texas, data, 9921-23, 12793-794
 Upper Arkansas River basin, potential developments, report, 10349
 Utah, report, 7993
 print as Senate document, report, 6761
 Washington State, data, 9924-26
 water resources review (periodical), 3582
 Wilder, Bellows Falls, Vernon, Turners Falls Development, appraisal for hydroelectric licensing, evaluation report, 8211
 Wisconsin, data, 8381
 Wyoming, data, 9927-28, 12795
 response in water, lanthanum fluoride electrode, 13303
 reverse osmosis, desalination, concentration polarization control, 15863
 distillation, scale control, basic studies, 15858
 electrochemical demineralization, activated carbon used as electrodes, 5760
 evaporators, scale control, review of current status, 9957
 recovery of salts, via solvent extraction, final report, 7086
 solubilities of some silicate minerals, 17097
 saline conversion—
 appropriations—
 hearings, 6793, 7960
 law, 12128
 reports, 6770, 7934, 9289
 report, 9954
 VTE saline water plants, development of mathematical model and computer program for optimization, 8417
 saline water research and development progress reports, 796-806, 2005-13, 4396-4405, 5760-63, 7084-90, 8415-22, 9955-76, 11280-287, 12825-826, 14403-407, 15853-864, 17093-99
 salt water environment, 180-ksi yield strength steels, fatigue crack growth studies, 2355

Water—Continued

- Santa Margarita Project, Santa Margarita River Basin, Calif., water quality control study, 8263
- Savannah River, Federal-State-industry cooperative quality studies, report, 14804
- sewage effluent as agricultural water resources, bibliography, 4287
- shallow-water areas, buried sand and gravel deposits, technique for location, 13246
- ship anemometer heights above mean water level, 13244
- storage and related physical characteristics of 4 mineral soils in north central Minnesota, 17023
- stream gaging, appraisal of surface water investigations in Philippines, 11654
- streams, interstate and international, use and control of waters, compacts, etc., 3946
- substandard quality, economic effects of using, in Webster and other communities in South Dakota, 17095
- supply—
 - and sea resources program, Northeast Marine Health Sciences Laboratory, collected reprints and resume, 4903
 - Colorado River, watershed conditions affecting, 3485
 - communities of over 1000 population water containing in excess of 1000 ppm of total dissolved solids, 15859
 - community, upgrading of treatment and distribution system needed (remarks), 16368
 - Conlee Dam National Recreation area, Wash., 9931
 - in cold regions, 6431
 - Indian homes, communities, etc., PHS to supply, public health laws, compilation, 493
 - lower Colorado River, magnitude and distribution, 5714
 - National Capital region problems, 16382
 - Nevada, fall, summary, 16422
 - problems at Everglades National Park, hearings, 15461
 - western United States, fall summary, 1405, 17389
 - your water supply and forests, 6376
- supply outlook—
 - Arizona, 3583
 - Colorado and New Mexico, 3584
 - Idaho, 3585
 - Montana, 1408, 3586
 - Nevada, 3587
 - Oregon, 3588, 17392
 - Utah, 3589
 - Washington State, 3590
 - western United States, including Columbia River drainage in Canada, 3591
 - western United States, water year, 6350
 - Wyoming, 3592
- surface water—
 - Colorado, occurrence and distribution of molybdenum, 15814
 - quality for irrigation in western States, 5726, 7063, 9936, 11254
 - quality, United States, 12801-802, 14376, 17074
 - records to Sept. 30, 1967, index—
 - lower Mississippi River basin, 7048
 - North Atlantic slope basins, 736
 - St. Lawrence River basin, 737
 - resources of Yobe River system, northern Nigeria, 15810
 - stations, index 12777
 - Texas, 12776
 - supply, 1961-65, United States, 9934-35, 12800, 14375
 - temperature, radiometer measurements, USSR study, 7134
 - surfactant, report of study, 1333
 - techniques of water-resources investigations, 753, 1971, 5725, 11249, 15811

Water—Continued

- thermal instability in layer of water formed by melting ice from below, 7648
- thermal neutron scattering measurements in water, 12826
- thermodynamic properties of liquid H₂O and D₂O and their mixtures, 10138
- thermodynamic properties to 1,000°C and 10,000 bars, 8418
- transport depletion processes development, 9974
- transport in hyperfiltration membranes, 5761
- urban storm water runoff, selected abstracts, 12663
- urban water, HUD concern (speech), 786
- use, 1965 estimate, 4355
- utilization in Wilcox Basin, Graham and Cochise Counties, Ariz., 7059
- waste-water renovation, feasibility of granular, activated-carbon adsorption, 4879
- water—
 - and aqueous solutions at high pressures and temperatures, properties, 806
 - and carbon dioxide vapor transmission, polynomial representation, 6920
 - and uranium dioxide under nonisothermal, quasi-isobaric conditions, chemical reactions between, experimental investigation, 5137
 - and waste disposal loans to associations, provide flexible interest rates, hearing, 13911
 - and wastewater technology, suggested 2-year post high school curriculum, 8176
 - for peace, international conference, proceedings, papers, etc., 2015
 - of the world, 4368
 - water-oriented outdoor recreation, econometric model for predicting demand, 12409
 - water-repellent preservatives, wood finishing, 674
 - water resources of windward Oahu, Hawaii, 7064
 - water-salt metabolism during spaceflight, 854
 - water spectrum, issues, choices, actions (periodical), 12553
 - water supply and pollution control, environmental health series, 4879, 14791
 - water supply and wastewater (remarks), 10331
 - water supply of Indian reservations (series), 8382
 - water supply papers, 756, 1974-76, 4370-72, 5726-28, 7058-64, 8382-83, 9932-36, 11251-254, 12796-802, 14371-377, 15814-818, 17074
 - water-to-cryogenic-hydrogen heat exchanger, heat transfer characteristics, 16178
 - wave transmission through and reflection by previous coastal structures, hydraulic laboratory investigation, 16968
 - well corrosion, Chad Basin, Nigeria, preliminary study, 14344
 - well site study, Fort Wingate Army Ordnance Depot, McKinley County, N. Mex., 12788
 - yields, effects of soil, freezing, 5673
 - see also Hydrology—Sea water—Waves.
- Water birds:
 - conservation aids waterfowl, 57
 - Federal waterfowl production areas, guide
 - Minnesota, 1432
 - Nebraska, 1433
 - North Dakota, 1434
 - South Dakota, 1435
 - helminths of waterfowl, annotated bibliography, 14887
 - hunting, possession, transportation, importation, Federal regulations governing, Alaska, 13461
 - status report, 7474

Water carriers :
 accounts, uniform system, 8493
 class A and B, revenue and traffic, quarterly, 3389
 equipment trust certificate financing, recording, hearing, 401
 mixing rule exemption, modernize certain restrictions upon application and scope—
 hearings, 10794
 report, 15293

Water Control Planning Division, report, 16503

Water fowl, *see* Water birds.

Water levels :
 and observation wells, fluctuations, records in Aberdeen-Springfield area, Bingham and Power Counties, Idaho, 8357
 and spring discharges, 1966-67, water resources data, data for Nevada, 8378
 fluctuations in Aberdeen-Springfield area, Bingham and Power Counties, Idaho, 1966, records, 14355

Water measurements :
 development of radioisotope procedures for measuring water movement in trees, 16629
 measurement of discharge by moving-boat technique, 5725

Water oak, *see* Oak.

Water planet, 17306

Water pollution :
 agriculture-related pollution control, report, 3634
 aspects of urban runoff, 9838
 clean water for nation's estuaries, proceedings, public meeting on water quality management for estuaries, 12655, 14239, 15740
 control—
 cooperation by all Federal agencies for—
 hearings, 6803, 8090, 9490, 12319
 report, 12281
 Federal costs, annual report to Congress, 5657
 plan, Lake Erie report, 8262
 research and development program, 6992
 research, development, demonstration, and training projects 1968 grants and contract awards, list, 6993
 Santa Margarita Project, Santa Margarita River Basin, Calif., study, 8263
 control act, amend—
 hearings, 6728, 6803, 8090, 9490, 12319
 reports, 6696, 7886, 12281
 control and abatement, Federal installations, 1966-68 survey, report, 5361
 control of oil discharges in navigable waters—
 hearings, 6803, 8090, 9490, 12319
 report, 12281
 control of sewage from vessels—
 hearings, 6803, 8090, 9490, 12319
 report, 12281
 effects on aquatic life resources of South Platte River basin in Colo., 8261
 environmental measurements, valid data and logical interpretation, symposium, 4878
 Federal grants for clean water, 5655
 fish kills, 15743
 heat can hurt, better water for America, 15742
 improvements in automatic sampling equipment used to determine extent of pollution in runoff from agricultural watersheds, 11787
 interstate waters—
 and intrastate waters of upper Mississippi River and its tributaries, Minnesota and Wisconsin, conference, proceedings, 1897

Water pollution—Continued
 interstate waters—continued
 Blackstone and Ten Mile Rivers and their tributaries, conference proceedings, 1895
 Coosa River and its tributaries, conference proceedings, 662
 Grand Calumet River, Little Calumet River, Calumet River, Wolf Lake, Lake Michigan and their tributaries, Ill.-Ind., 11146
 Lake Champlain and its tributary basin, New York and Vermont, conference proceedings, 14240
 Merrimack and Nashua Rivers and their tributaries, Mass.-N.H. and of intrastate portions of those waters within State of Mass., 17006
 Pearl River, Miss., La., conference proceedings, 11147
 Lake Erie and its tributaries, 9836
 conference, proceedings, 4th session, 5656
 Indiana, Michigan, New York, Ohio, Pennsylvania, conference, proceedings, 5654
 Lake Michigan and its tributary basin, Illinois, Indiana, Michigan, and Wisconsin, conference proceedings, 14241
 Lake Ontario and St. Lawrence River basins, problems and improvement needs, 9839
 lower Potomac River, the Nation's river (remarks), 7091
 mineral pollution problem in Colorado River Basin, general background, 14243
 Moriches Bay and eastern section of Great South Bay and their tributaries, progress evaluation meeting, proceedings, 663
 Nation's estuaries, San Francisco Bay and Delta, Calif., hearing, 12223
 navigable waters of Boston Harbor and its tributaries, conference proceedings, 1896
 oil discharges from vessels, control, hearings, 9362
 oil pollution act of 1924, amend, hearings, 9362
 oil spill problem, report of Presidents Panel on Oil Spills, 17367
 oil spillage—
 California, hearings, 7970
 Santa Barbara, Calif., hearings, 6729, 12305
 problem (remarks), 11634
 problems, Lake Michigan and tributaries, actions for clean water, 8265
 role of bottom-dwelling macrofauna in water pollution investigations, 14791
 showdown for water, 1898
 thermal pollution—
 effects on river ice conditions, simplified method of calculation, 15649
 hearings, 501, 1744
 print additional copies, report, 9421, 10759
 industrial waste guide, 12659
 vessel pollution study San Diego Bay, Calif., 12661
 waste water treatment, primer, 17007
 water oxygen demand, report of study, 2434
 water pollution control research series, 9838, 12663-664
 advances waste treatment research, 12662
 water quality improvement act of 1969—
 hearings, 6803, 8090, 9490, 12319
 reports, 6696, 7886, 12281
 Water Quality Sub-Task Force on Project Potomac, report, 14244
 water supply and pollution control, environmental health series, 4879, 14791
 what you can do about water pollution, 1899

- Water Pollution Control Advisory Board, President's, *see* President's Water Pollution Control Advisory Board.
- Water power:
- Deer Lake and Kasnyku Lake, Baranof Island, geology of proposed powersites, 9884
 - geology of sites in Alaska (series), 9884
- Water purification:
- equipment, Federal item identification guides for supply cataloging, supplements, 2845
 - systems development based on reverse osmosis, 9956
 - test of flushing procedures to control salt-water intrusion at W. P. Franklin Dam, near Ft. Myers, Fla., 8359
- Water treatment plant operator, 16686
- Water quality act of 1965, *see* Water pollution.
- Water quality act of 1969, *see* Water pollution.
- Water quality improvement act of 1969, *see* Water pollution.
- Water Quality Sub-Task Force on Project Potomac, report, 14244
- Water reactors, *see* Reactors (atomic).
- Water Resources Council:
- appropriations, 1970—
 - hearings, 12204
 - report, 15298
 - coordination of planning studies and reports, handbook, 11780
 - 1st national assessment of Nation's water resources, 2541
 - summary report, 2542
 - press releases, 3332
- Water Resources Division:
- California district, activities, 727
 - Texas district, program and summary of district activities, 8355
- Water Resources Research Office:
- appropriations—
 - hearings, 7946
 - reports, 12171, 15398, 16793
- Water Resources Scientific Information Center, selected water resources abstracts (periodical), 3430
- Water supply, *see* Water.
- Water systems:
- bond sales, 665
 - sewage and water works construction, contract awards, 6991
- Water Users Association, directory of reclamation projects, 4907
- Water vapor:
- interaction with pristine E-glass fiber, 10256
 - technique to infer atmospheric water-vapor mixing ratio from measured horizon radiance profiles, 11467
 - vertical distribution of water vapor over Washington, D.C., 13296
- Waterborne commerce, *see* Commerce.
- Waterborne foreign trade, 2918
- Waterbury, Conn., area wage survey, 11340
- Watercraft, *see* Boats.
- Waterfowl, *see* Water birds.
- Waterloo, Iowa, area wage survey, 8551
- Waterloo, Nabr., highway-railroad accident, report, 11557
- Waters, John B., jr., nomination, hearing, 8091
- Waters, Lawrence K., stability of Edwards personal preference schedule need scale scores and profiles over 7-week interval, 14495
- Waters, William J., nickel base alloy, WAZ-20, with improved strength in 2000° to 2200° F range, 13127
- Watershed engineering, moisture-tension data for selected soils on experimental watersheds, 1496
- Watersheds:
- agricultural improvements in automatic sampling equipment used to determine extent of pollution in runoff, 11787
 - Arizona, snowpack accumulation, melt, and runoff, observations, 5676
 - chaparral—
 - effect of heavy late-fall precipitation on runoff, 9852
 - selective control of brush with soil-applied fenuron and picloram, 14283
 - Hawaii, survey, plan of work, 15004
 - management program in Wind River basin, Wyo., appraisal, 12756
 - Piru Creek, sedimentation, 1974
 - project, Upper North Laramie River, hearing, 502
 - projects, miscellaneous, hearings, 385
 - see also* names of rivers, etc.
- Waterways, *see* Inland waterways.
- Waterways Experiment Station:
- miscellaneous papers, 604, 1824, 4214, 5571, 6907, 11014, 15665-666
 - publications—
 - available for purchase, 1822, 12547
 - list, 597
 - research reports, 1825-26, 16968
 - technical reports, 605-608, 1827-29, 4215, 5572-74, 6908-10, 8185-86, 9716-17, 11015-18, 12558, 14155-156, 15667-668, 16969
- Waterweed:
- common aquatic weeds, 332
 - crayfish, use for control of aquatic weeds in trout lakes, 6258
 - corrected copy, 13467
- Watkins, Edward R., jr., preprocessing of minitrack data, 11439
- Watkins, Laverne L., corrosion and protection of steel piling in seawater, 14149
- Watkins Carolina Express, Inc., motor carrier accident, 16114
- Watson, Delamar M., simulation studies for planning in-flight experiment to define manual guidance and control techniques for large launch vehicles, 8632
- Watson, E. R.:
- design and fabrication of 50,000 GPD portable reverse osmosis pilot plant, 9969
 - field operation of mobile reverse osmosis pilot plant, 9968
 - operation of 50,000 gpd portable reverse osmosis pilot plant, 12825
- Watson, John, papers in Library of Congress, register, 2126
- Watson, J. Throck, simplified determination of urinary testosterone utilizing column and gas-liquid chromatography, 3714
- Watson, Thomas J., jr.:
- appointment as citizen regent—
 - law, 12115
 - reports, 8030, 9297
- Watson, W. Marvin:
- addresses,
 - July 30, 1968, 7395
 - Oct. 16, 1968, 1303
 - Oct. 18, 1968, 1302
 - Oct. 21, 1968, 1307
 - Oct. 27, 1968, 1308
 - Oct. 31, 1968, 1301
 - Nov. 4, 1968, 1300
 - Dec. 3, 1968, 2389
 - Dec. 4, 1968, 2390
 - Jan. 3, 1969, 2388
 - Jan. 17, 1969, 4851
- Watt, James J., fouling characteristics of ASTM Jet A fuel when heated to 700° F in a simulated heat exchanger tube, 2257
- Watt, Lois B.:
- adult basic education, bibliography from Educational Materials Center, 4160
 - books related to compensatory education, 16952
- Watt, William S., nonequilibrium gasdynamics, 14583

- Waukegan, Ill. :
harbor, engineers report—
departmental edition, 609
document edition, 362
- Waupaca County, Wis. :
floods—
how to avoid damage, 15654
plain information, 15657
- Wave forms :
soul boom waveforms, various simulated,
relative annoyance and loudness judgments, 1016
transformer of closely space pulsed wave-
forms having nonzero average value,
16200
- Wave functions :
Hartree-Fock calculations with Wood-
Saxon basis functions, 6014
prolate spheroidal image enhancement,
6148
wave equation in prolate spheroidal coor-
dinate, tables of eigenvalues, 14743
- Wave guides, *see* Waveguides.
- Wave Propagation Laboratory :
ESSA Research Laboratories, technical
manuals, 1831
ESSA technical report ERL-WPL series,
1836, 9726, 12571-572
- Waveforms, *see* Wave forms.
- Waveguides :
aperture-limited dominant beam mode of
lens-type beam waveguide, radiation
characteristic, 3740
earth-ionosphere waveguide, VLF mode
calculations for propagation across
land-sea boundary, 1833
electrodynanic analysis of special non-
uniformities in wave guides, USSR
study, 849
multisection waveguide directional filter,
description, 1569
mutual coupling between waveguides
which propagate 2 orthogonal modes,
first-order solutions, 8640
slope diffraction analysis of TEM parallel-
plate guide patterns, 10077
TEM mode reflection coefficient of ground-
plane mounted parallel-plate waveguide
illuminating reflecting sheet, 8597
thin film iris, 11414
tunnel-diode amplifier, design considera-
tions, 6143
which propagate 2 orthogonal modes, first
order solutions for mutual coupling
8640
- Wavelengths :
atmospheric attenuation at wavelengths
from 75 centimeters to 2 millimeters, re-
view of radiometric measurements,
10104
radiometric techniques applicable to mea-
surement of solar activity and atmos-
pheric attenuation at millimeter wave-
lengths 10155
- Waves :
acoustic-gravity waves in atmosphere—
final program, 15670
symposium proceedings, 9718
acoustic, observations in the ionosphere
following nuclear explosions, 1835
bending moment distribution in MARINER
cargo ship model in regular and irregu-
lar waves of extreme steepness, 2446
breaking-wave pressures, experimental
study, 1825
circumferential, on aluminum cylinders in
water, by means of pulses, experimental
examination, 13281
Crescent City Harbor, Calif., design for
optimum wave conditions, 606
cyclotron, anomalous absorption in con-
fined plasma, 16617
cylindrical hydroacoustical, diffraction at
junction of 2 semi-infinite plates, USSR
study, 15952
- Waves—Continued
governing equations for wave propagation
in homogeneous isotropic continuous
fluid, 12588
hydrodynamics and water waves, introduc-
tion—
fundamentals, 14168
water wave theories, 14169
internal wave parameters and ocean tur-
bulence, USSR study, 8502
internal waves, diffraction of unsteady
surfaces, USSR study, 7148
linear wave transformation in inhomoge-
neous magnetoactive plasma, 16613
MCDIT 21, computer code for one-dimen-
sional elastic wave problems, 11404
motion problems, scientists investigate,
USSR study, 15930
nonlinear electrodynamics and optics
theory of waves approaching exact solu-
tions, 16609
numerical forecasting of wind fields and
wave conditions, USSR study, 8508
ocean wave parameters and temperature
fluctuations, USSR studies, 8524
SH-type seismic waves, detection by means
of angular accelerometers, 12780
ship structural response in waves—
development of mathematical models,
6223
Investigation of utility of computer
simulation to predict, 13409
shock pressures caused by waves breaking
against coastal structures, 1826
spin-dependent S-wave statistics, analysis
of gold sphere transmission experiments
at 24-keV neutron energy using, 8651
stress wave propagation in elastic-plastic-
compactible media for blast shields,
5158
supersonic flow field about axisymmetric
body with N wave pressure trace, esti-
mate, 1141
surface—
effect of ocean bottom on sound genera-
tion and dependence of sound velocity
on depth, USSR study, 15929
use in communicating with high speed
vehicles, 12574
2GHz electromagnetic wave propagation
over optical paths in 3 geographical
regions of United States, study, 17205
water wave profiling with microwave
radar, scintillation range noise and re-
lated phenomena, 2349
wave and surge conditions after proposed
expansion of Monterey Harbor, Calif.,
608
wave motions, USSR studies, 7155
see also Radio waves—Shock waves.
- Waxes :
emulsions and asphalt, effect on moisture
changes in slash, 17051
Federal item identification guides for
supply cataloging, supplements, 2847
- Waybill statistics, *see* Railroads.
- Wayne County, Mich., work experience and
training project, administration and effec-
tiveness, GAO report, 12731
- Wayne County, N.Y. :
Canandaigua Outlet—
flood plain information, 9667
floods, keep damages low by building
high, 12526
- Ways and Means Committee, House :
calendar, 3051
committee prints, 429, 1715-19, 4006, 5439,
7981-82, 7984-85, 9376, 12244, 13945-
946, 15338, 16826-827
errata, 7983
digest of oral testimony presented with
respect to administration's balance-of-
payments proposals, 1714
hearings, 5384, 7980, 10808-9, 13944,
16828

Ways and Means Committee, House—Con.
investigations and studies, expenses report,
6675
press release, revised, concerning public
hearings to be conducted on subject of
tax reform, 7981
reports, 1694, 6660, 7896-7900, 7903-7,
7911, 10739, 12191, 12198-201, 16776
Ways to attract non-game birds, 14881
WB, see Weather Bureau.
WB/BC series, 4224
WB/TA series, 5581-82, 12575
We hold these truths, 13515
We the black people of United States, 7755
We thought you'd never ask, 5781
Weapons:
antiballistic missile systems, strategic and
foreign policy implications, hearings,
8068, 10900, 14031
atomic, design of structure to resist effects,
multistory frame buildings, 11947
chemical and biological weapons, possible
approaches for lessening threat and
danger, 9479
control, engineering design handbook, 3736
Federal item identification guides for sup-
ply cataloging, supplements, 2850
individual, ROTC manual, change, 3774
means of mass destruction, protection
against, USSR study, 7127
multiple warhead missiles, diplomatic and
strategic impact, hearings, 12217
nuclear—
effects, self-teaching materials, 7761
effects tests of blast type shelters, docu-
mentary compendium of test reports,
16620
nonproliferation treaty—
hearings, 5444
international negotiations, 5105
military implications, hearings, 5426
text, 5396
text of draft and explanatory remarks,
5104
palletizing domestic unit loads of weapon
components, military standard, 16929
system procurement, evaluation of 2 pro-
posed methods for enhancing competi-
tion, Defense Dept., GAO report, 12742
underground testing, international and
other foreign policy aspects, study and
evaluation, hearings, 16884
weapon packaging, handling, storage and
transportation preparation, performance
and compatibility requirements, military
standard, 549
a world of nuclear powers? Air Force
Assembly final report, 64
Wear, see Friction.
Weather:
all weather landing development tests,
16487
aviation weather service, pilot's guide,
9730
basic cold weather manual, Army field
manual, change, 13655
critical fire weather patterns in conter-
minous United States, 5579
daily weather and river bulletin, Albuquer-
que, N. Mex., area, 2742
human dimensions of atmosphere, 1232
key to aviation weather reports, etc.,
17439
map, explanation, 16974
maps—
daily weather map, 2743
weekly series, 2744
synoptic, Northern Hemisphere, 2739
mariners weather log (periodical), 3102
publications, price list, 8790
quantitative radar measurements, 1535
radio aids, 17304
review, monthly, 3147
service C schedules, 9746, 12592
service O international schedules, changes,
1555, 7639, 13641

Weather—Continued
ships weather observation messages ac-
cepted by United States and foreign
coastal radio stations, 10454
use of Skew T, Log P diagram for analysis
and forecasting, 16567
weather and architecture, bibliography,
11022
weather and crop bulletin (periodical),
3600
Weather Bureau observing handbook,
WBOH series, 10455
weather or not, weather briefing guide for
the general aviation pilot, 10212
world weather program, plan for 1970
fiscal year, 5294
see also Meteorology.
Weather Bureau:
and water management, 618
circulars, 8934
engineering handbook series, 1491
ESSA technical report, WB series, 616,
5579, 11028, 12573, 16973
ESSA technical memorandum WBTM-
DATAC series, 15673, 16971
ESSA technical memorandum, WBTM
TDL series, 16972
marine weather services, general informa-
tion, 9731
observers quarterly, 16527
observing handbook, WBOH series, 10455
spotter's guide for identifying and report-
ing severe local storms, 11031
WBAN manual of surface observations,
8934
Weather control:
Air Weather Service, weather modification
program—
final report, 3688
fiscal year, annual survey report, 13618
atmospheric water resources program,
Project Skywater, annual reports, 7439-
40
cloud-seeding project, meteorological re-
search, agreement with Philippines,
11720
Project Skywater—
conference proceedings
Colorado River basin pilot project,
scientific review plans and design,
14837
optimization of operational weather
modification, 4909
physics and chemistry of nucleation,
13401
production and delivery of cloud nu-
cleating materials, 8832
special park range cooperative experi-
ment, summary report, 14827
weather modification program of Atmo-
spheric Physics and Chemistry Labora-
tory, symposium, 12576
Weather forecasts:
average monthly weather outlook (pe-
riodical), 2617
coastal warning facilities chart—
Canadian border to Eureka, Calif. and
Alaska, 14963
Eastport Me. to Montauk Point, N.Y.,
14964
Eureka to Point Conception, Calif.,
14965
Manasquan, N.J. to Cape Hatteras, N.C.
and Chesapeake Bay, 14966
forecasters guide on aircraft icing, 6412
key to aviation weather forecasts, 17439
long-range forecast of temperature for 19
United States cities, 11663
marine weather services, Weather Bureau,
9731
numerical forecasting of wind fields and
wave conditions, USSR study, 8508
objective forecast studies, evaluation and
verification, 5081
objective forecasting, 5081

- Weather forecasts—Continued
 short-range weather forecasting, hydrodynamic theory, USSR study, 7131
 small craft, gale, and storm warning facilities chart, 11782
 subsynoptic advection operational model, 16972
 use of Skew T, Log P diagram in analysis and forecasting, 16567
 warning facilities chart, Hawaiian waters, 14967
- Weather modification, *see* Weather control.
- Weather satellites, *see* Satellites.
- Weather stations:
 cooperative meteorological program—
 agreement with Mexico, 8901
 continuation agreement with—
 Colombia, 7498
 Dominican Republic, 10421
 North Atlantic Ocean Station—
 Bravo, 15155
 Echo, 15156
 Northern Bering sea, Bering Strait, Chuckchi Sea, USCGC Northwind oceanographic cruise, report, 12063
 portable station for recording fire weather data, 17031
- Weathering, concrete and concreting materials, performance investigation, 11015
- Weaver, Lewis K.:
 graphite, 14527
 impact of petroleum development in Gulf of Mexico, 10048
- Weaver, Robert C.:
 addresses, etc.—
 Oct. 21, 1968, 781
 Oct. 26, 1968, 768
 Nov. 3, 1968, 1994
 Nov. 14, 1968, 1985
 looking back, and ahead, 779
- Webb, Charles D., sycamore seed germination, effects of provenance, stratification temperature, and parent tree, 7016
- Webb, H. Jr., theoretical flow field calculations for Project RAM, 11405
- Webb, R. T., Division of Fishery Services annual report, 17395
- Webb, Warren L., desiccation of woody stems, influenced by connected live tissues, 11178
- Webber, Richard H., monitors of U.S. Navy, 1861-1937, 16306
- Webbers Falls Lock and Dam, Arkansas River navigation project, hydraulic model investigation, 15668
- Webbing, textile, color codes, manufacturer's identification, military standard, 14111
- Webb-Pomerene act, *see* Commerce.
- Weber, Arnold R., nomination, hearing, 5462
- Webster, S. Dak.:
 and other communities, economic effects of using substandard quality water, 17095
 operation of reverse osmosis desalination unit, 8420
- Webster County, W. Va., coal, carbonizing properties, 5958
- Weed, George T., relief, 6640, 10838, 12096
- Weeds:
 control, suggested guide, 6372
 lawn, control with herbicides, 40
 noxious weeds, control on Federal lands by State and local officials, authorize, hearings, 387
see also Ironweed—Waterweeds.
- Weekly:
 NOTE.—For all publications which begin with the word "Weekly", *see* subject, or name of department, etc., issuing publication.
- Weeks, *see* names of special weeks.
- Weems, George W., compressibility factors for helium and carbon dioxide mixtures at 0°, 10°, 20°, 23°, and 35°C and to 900 psia, 5957
- Weems, Tracey A., soil survey, Tensas Parish, La., 2464
- Weertman, Johannes:
 bubble coalescence in ice as tool for study of its deformation history, 9031
 diffusion law for dispersion of hard particles in ice matrix that undergoes simple shear deformation, 3744
- Weevils:
 boll weevil—
 anthrenomus grandis Boh, abstracts of research publications, 3651
 how to control it, 13584
 pine gall, do pine gall weevils affect cone production in red pine? 11175
- Wegener, James F.:
 conferring citizenship posthumously, 12098, 13953
 relief, 9284
- Wegstein, J. H., semi-automated single fingerprint identification system, 7329
- Weidenbaum, Murray L.:
 addresses, etc.—
 Aug. 27, 1969, 14953
 Sept. 10, 1969, 16511
 Oct. 1, 1969, 16516
 Oct. 6, 1969, 17428
 Oct. 13, 1969, 17425
- Weidenhamer, Margaret:
 homemakers' opinions about selected meats—
 nationwide survey, 11874
 preliminary report, 2507
- Welder, Samuel, radiological health data and reports, 3363
- Weidner, John P., preliminary investigation of momentum diffusion between 2 supersonic airstreams in presence of shock waves, 4712
- Weighing instruments, *see* Scales (weighing instruments).
- Weight:
 buckling of equatorial segment of spherical shell loaded in axial direction, 1133
 Framingham relative weight, serum cholesterol and systolic blood pressure as discriminators of cardiovascular disease, Framingham, study, 16255
 motor vehicle weight and width limitations on interstate highway system, raise limits, hearings, 15326
- Weightlessness:
 and artificial gravity, potential problems, 4715
 astronauts extravehicular work capabilities, study, 10080
 changes of indices of external respiration, gas exchange and energy expenditure of human subject, USSR study, 7139
 coordination of voluntary movements of man in a zero gravitational field (under weightlessness), 13147
 liquid-vapor interface configurations in toroidal tanks during weightlessness, 1063
 problems, discussed, USSR study, 15908
 simulation experiments, mechanisms of reducing orthostatic tolerance, USSR study, 5832
 study of astronauts capabilities to maintain life support systems and cabin habitability, 16130
 vapor ingestion phenomenon, 10130
 vestibular reactions, possible patterns, USSR study, 2090
- Weightlifting provisions for women by State, 13536
- Weights and measures:
 commercial specifications, tolerances and other technical requirements, replacement pages, 14663
 helicopter height-velocity diagram, gross weight effects, investigation, 1050
 royal-red shrimp, length-weight relation and conversion of whole and headless weights, 10668

- Weights and measures—Continued
specifications and tolerances for field
standard weights, 8665
see also Body weight—Metric system.
- Weiber, Claudine J.:
circular letters of Secretary of Treasury
(T Series), 1789-1878, pamphlet to ac-
company microcopy, 2281
telegrams sent by Secretary of Treasury
(“XA” series), pamphlet, 1168
- Weiland, Walter F., jr., heat-transfer char-
acteristics of water-to-cryogenic-hydrogen
heat exchanger, 16178
- Weinberger, Leon W., address, June 28, 1967,
6992
- Weinerman, E. Richard, ambulatory service
data system, 14778
- Weinstein, Milton C., symbol-oriented fail-
ure analysis in multicomponent systems,
8620
- Weinstein, Ray, containers and packaging,
quarterly industry report, 2703
- Weinstein, Richard H., computer experi-
ments on microscopic behavior of one-
dimensional plasmas, 1067
- Weinstein, Suzanne T., effects of reactor
radiation on 22-volt silicon voltage-regu-
lator diodes, 1135
- Weirich, Robert L., flow-field properties
near arrow-body model at Mach numbers,
1060
- Weirs, *see* Dams.
- Weirton, W. Va., air quality control region,
report for consultation, 14803
- Weisgerber, P., productivity of diverted
cropland, 8155
- Weitzell, E. C., planning for rural industry,
7609
- Weitzman, Donald O., effect on vision of re-
peated exposure to carbon dioxide, 12999
- Weizer, Victor G., resolution and image
intensity of field-ion microscope, 7291
- Welch, Eugene B., factors for phytoplankton
blooms and effects on dissolved oxygen in
Duwamish River estuary, Seattle, Wash.,
7061
- Welcome to Army ROTC, 9061
- Welcome to Washington, 4808
- Weld, Betsy A., reports and maps of Geolog-
ical Survey released only in open files,
1968, 9891
- Weld metals, maraging steel welds in range
from 150- to 200-ksi yield strength, frac-
ture toughness characteristics, ratio analy-
sis diagram interpretations, 11570
- Weld Mill, Ambridge, Pa., Armco Steel Cor-
poration, butt-weld pipe, effect of importa-
tion on employment of workers, Tariff
Commission report, 17450
- Welded joints, *see* Joints.
- Welded pipe, *see* Pipe and pipe fittings.
- Welders:
Arc welding, quality and reliability assur-
ance handbook, materials and material
processes series, 12377
employment outlook, 4566
- Welding:
and flame-cutting processes and practices,
7453
constructional steels, welding procedures,
military standard, 546
equipment, industrial plant equipment,
handbook, 5481
flame straightening and its effect on base
metal properties, 14854
fracture characterization of narrow gap
weldments, mechanical considerations,
11569
high-strength low-alloy steel weldments for
cargo ship hulls, study of factors which
affect adequacy, 16400
pressure vessel steels and weldments, effect
of residual elements on 550° F. irradiation
response, 6150
- Welding—Continued
recommended emergency welding procedure
for temporary repairs of ship steels,
10358
reference radiographs for steel welds, mili-
tary standard, 544, 5504-5
repair to hydraulic equipment, 13398
- Weldments, *see* Welding.
- Weldon, L. W., common aquatic weeds, 3632
- Welfare, *see* Public assistance—Social work
and problems.
- Welfare funds:
pension and welfare plans, hearing, 498
welfare and pension plans disclosure act—
administration, 1968, report of Secretary
of Labor, 4460
amend—
hearing, 498
report, 371
welfare and pension plan protection act of
1968, report, 371
- Welfare in review (periodical), 3601
- Welfare work, *see* Public assistance—Social
work and problems.
- Welfare work in industry, *see* Employee ben-
efit plans.
- Well drilling:
and testing of well 340, Fort Wingate Army
Depot, McKinley County, N. Mex., 12767
oil field machinery and equipment includ-
ing services, shipments and materials
consumption report, 9096
- test wells—
phase 1, White Sands Missile Range,
Dona Ana County, N. Mex., 12778
Post Area, White Sands Missile Range,
Dona Ana County, N. Mex., 14359
SMR-4 and SMR-5, White Sands Mis-
sile Range, N. Mex., water resources
investigations, 8360
- Wellfleet Job Corps Civilian Conservation
Center, South Wellfleet, Mass., effective-
ness and administration, GAO report,
12740
- Wells, J. Robert:
abrasive materials, 17168
feldspar, nepheline syenite and aplite,
16075
fluorspar and cryolite, 17171
- Wells, John H., placer examination, princi-
ples and practice, 17161
- Wells, Leora W., acquisition and development
of values, perspectives and research, 14682
- Wells, Robert, nomination, hearings, 16880
- Wells, William L., description of high-
enthalpy arc tunnel at Langley Research
Center including test-stream conditions at
selected operating points, 13098
- Wells:
California, references for well data and
water levels by Geological Survey, 14356
classification definitions, 13311
chemical properties of ground water and
their corrosion and encrustation effects
on wells, 8352
- deep-well—
disposal study of desalination brine
waste, 17094
injection of waste brine from inland
desalting plants, feasibility, 8121
metal components for long-term develop-
ment of Egypt's corrosive ground wa-
ters, selection, 14357
observation, and water-level fluctuations
in Aberdeen-Springfield area, Bingham
and Power Counties, Idaho, records,
8357, 14355
- Rocky Mountain arsenal disposal well, seis-
mic activity during test pumping, 5711
tube, of Indus Plains, West Pakistan, cor-
rosion and encrustation—
evaluation and control, 7058
preliminary evaluation, 14343
- water, Fort Wingate Army Ordinance
Depot, McKinley County, N. Mex., site
study, 12788

- Wells—Continued
water-well corrosion, Chad Basin, Nigeria, preliminary study, 14344
- Welsh, Genevieve D., New Florencia, delta-collection operations, organization and functions of field staff, 7750
- Welsh, Harold, Navy civil engineer, 3180
- Weltman, Gershon, NASA contributions to bioinstrumentation systems, survey, 4698
- Wenatchee National Forest:
Cle Elum trail trips, 14255
- trail bike trips, general information, 12722
- Wenke, Kenneth G., tilt prop-rotor composite research aircraft, 6451
- Weott, Calif., floods, South Fork Eel River, causes, possible solutions to prevent damage, etc., 12538
- Werner, Elliot, basic data on economy of Uruguay, 3903
- Wessel, F. W., mineral industry of Guyana, 5938
- Wessel, Thomas R., honey bees, 7455
- West, Dorothy B., medical, 7332
- West, J. M.:
boron, 14525
diatomite, 13010
mercury, 14536
- West, James A., mineral industry of Iraq, 2146
- West, Robert G., Plowshare, selected, annotated bibliography of civil, industrial, and scientific uses for nuclear explosives, 7702
- West (U.S.):
fresh fruit and vegetables, unloads in western cities by commodities, States, etc., 6808
irrigation, quality of surface waters, 5726, 7063, 9936
national parks, general information, 6084
pozzolanic raw materials resources, 16078
quality of surface waters for irrigation, 11254
snow survey and soil moisture measurements, 4942
war on poverty, examination, case study, 10914
water supply, fall summary, 1405, 17389
water supply outlook—
and snow surveys, 3591
water year, 6350
western range and livestock, monthly report, 3602
- West Africa, *see* Africa.
- West Baden Springs, Ind., climatic summaries of resort areas, 5575
- West Central Regional Advisory Committee, West Central Region power survey, 1970-90, report, 12624
- West Germany, *see* Germany.
- West Indies:
climatological data, 2662
freshwater and terrestrial decapod crustaceans, 8709
lights and fog signals, list, change, 2334, 8750, 16301
sailing directions, change, 7370
- West Jefferson, Ohio, railroad accident, report, 11099
- West North Central States, *see* Central States.
- West Orange, N. J., motor carrier accident, 16114
- West Pakistan, *see* Pakistan.
- West South Central States, *see* Central States.
- West Virginia:
Agricultural Stabilization and Conservation Service, annual report, 6952
census of business, 1967, retail trade, area statistics, 13752
climatological data, 2662
electric rate book, 1881
employment statistics, 1958-66, compilation, 12979
- West Virginia—Continued
Federal outlays, report of Federal Government's impact by State and county, 9580, 9630
mineral industry, minerals yearbook chapter, 4630
potential development of central Appalachia, preliminary analysis, 13650
precipitation data, hourly, 2962
proposed Potomac National River, plan for preserving, 6093
route 52, designate as part of National System of Interstate and Defense Highways, hearings, 13939
uranium reconnaissance, preliminary, 13712
water resources development by Army Corps of Engineers, 11009
- West Wind (vessel):
documentation with coastwise privileges, authorize, 8046
- Western Carriers' Conference Committee, emergency board report, 8178
- Western Europe, *see* Europe.
- Western Experiment Station Collaborators Conference, molecular biology and agriculture, potential for future research, conference report, 7570
- Western Fish Disease Laboratory, Seattle, Wash., fish disease research, 2480
- Western Fish Nutrition Laboratory, general information, 17396
- Western Greenland Sea, *see* Greenland Sea.
- Western Hemisphere, *see* Hemisphere, Western.
- Western Hemisphere Immigration, Select Commission on, hearings, 8935
- Western hemlock, *see* Hemlock.
- Western railroad mergers, 10436
- Western Samoa:
investment guaranties, agreement, 17412
nautical chart catalog, 7789
- Western States, *see* West (U.S.).
- Western Utilization Research & Development Division:
laboratories and functions, 11797
publications and patents, semiannual list, 14, 10463
- Westfall, A. O., surface water resources investigations plan for Afghanistan, 8358
- Westfield, Mass.:
floods—
how to avoid damage, 15660
plain information, 15656
- Westfield River, flood plain information, 15656
- Westmoreland, W. C., report on operations in South Vietnam, 6440
- Westmoreland County, Pa., soil survey report, 4944
- Weston, J. P., estimating diameter of plasma in propulsion motor plume, 14746
- Weston, Kenneth C., stagnation-point boundary layer with suction and injection in equilibrium dissociating air, corrected copy, 2217
- Wetherill Mesa, *see* Mesa Verde National Park.
- Wetlands, *see* Swamplands.
- Wettability and Mair infrared spectroscopy of solvent-cast thin films of polyamides and polypeptides, 2354
- Wetting agents:
wettability of fluorocarbon and chlorocarbon trialkoxysilane films adsorbed on glass and metal surface, 7388
wetting of low-energy surfaces by non-aqueous solutions of dimethylsiloxane-containing or fluorocarbon-containing surfactants, 10255
- Weybrew, Benjamin B.:
performance effects of increased ambient pressure, helium-oxygen saturation and excursion dive to simulated depth of 900 feet, 8576

- Weybrew, Benjamin B.—Continued psychological and physiological changes associated with deprivation from smoking, 5927
- WGET, *see* Extraterrestrial Resources Working Group.
- Whales, *see* Cetacea.
- Whaley, Bob L., water supply outlook and Federal-State-private cooperative snow surveys for Nevada, 3587
- Whaling, international convention, schedule, amendments, 1454
- What churches can do, inter-faith opportunity center, 10457
- What is observation? 16909
- What is relocation all about, 14391
- What is STAP? 5523
- What is your community doing for Senior Citizens Month, 1969? 5019
- What we know about children and smoking, 2435
- What you can do about water pollution, 1899
- What you should know about John, 10446
- What's new on smoking in print, 6215
- What's your move? U.S. Coast Guard Auxiliary, 302
- Wheat:
certificates, statutes, compilation, 1502
durum, acreage allotments in Tulare lake area—
hearings, 12283, 13914
report, 15395
futures—
commitments of traders, 2680
trading and open contracts, 2931
objective yield survey, interviewers manual, 7537
Portuguese, resistance to wheat stem sawfly, 3619
program summary, 7581, 11815
suppression of wheat stem sawfly with resistant wheat, 8990
utilization research, 5th national conference, 11792
wheat-flour economy, regional and sectoral analysis, transportation study, 16548
wheat situation, 3603
winter, crop production, 2506
- Wheat stem sawflies, *see* Flies.
- Wheatgrasses, eroded, pasture productivity, as influenced by nitrogen fertilization and alfalfa, 6401
- Wheeler, Earle G.:
Chairman of Joint Chiefs of staff, reap-
pointment—
law, 10681
reports, 7932, 8044
- Wheeler, Richard G., production and export of corn and rice in Brazil, prospects for 1970's, 15624
- Wheeler Peak Scenic Area, Humboldt National Forest, general information, 14297
- Wheeler Reservoir, fish monitoring investigations, Browns Ferry Nuclear Plant, 7544
- Wheeling W. Va., air quality control region, report for consultation, 14803
- Wheels:
classification definitions, 1294
improved wheel performance on sand by controlled circumferential rigidity, 11018
- Wheelwright machinery, classification definitions, 2368
- Whelan, Joseph G., aspects of intellectual ferment and dissent in Czechoslovakia, 8078
- Where the leaders are, 13682, 15059
- Where the money is, American education's annual guide to OE programs, 5559
- Whipple, E. C., jr., satellite ion-electron collector, experimental effects of grid transparency photoemission, and secondary emission, 6913
- Whips, and whip apparatus, classification definitions, 11578
- Whiskeytown Shasta-Trinity National Recreation Area, general information, 13201
- Whisman, Marvin L., radiotracer procedures for mechanistic studies in air pollution research, 16103
- Whitcomb, James H., detection of SH-type seismic shear waves by means of angular accelerometers, 12780
- White, Alfred, market factors in Italy, 10659
- White, Doss, H., jr., mineral industry of Tennessee, 4628
- White, Emily T., statistical reporter, 3463
- White, James A., forestry management in West Pakistan, 12859
- White, Kenneth C., methods for predicting spacecraft-window-induced line-of-sight deviations, 13076
- White, Kerr L., international comparisons of medical care utilization, feasibility study, 11641
- White, Richard E., review of genus *Cryptoccephalus* in America north of Mexico (*Chrysomelidae: Coleoptera*), 4793
- White, Richard P. jr., aerodynamic and aeroelastic characteristics of full-scale rotor blade stopped in flight, 13676
- White, William B., seed and cone insect survey on seed production areas, Clark, Mark Twain and Shawnee National Forests, 7005
- White cedar, *see* Cedar.
- White collar workers:
Federal, occupations, Oct. 31, 1967, list, 3885
help wanted, or is it? job inequalities, 1844
see also Government officials and employees, White County, Ark., community profile, 15610
- White Earth, Minn., community action program, effectiveness and administration, GAO report, 12736
- White fir, *see* Fir.
- White-fringed beetles, *see* Beetles.
- White House, *see* Executive mansion.
- White House, Canyon de Chelly National Monument, 6092
- White House, Committee for Preservation of, report, 8936
- White House Fellows, program, 13329
- White House Police, *see* Police.
- White Mountains, California and Nevada, desert flooding, sequential study, 3760
- White noise, *see* Noise.
- White oak, *see* Oak.
- White pine, *see* Pine.
- White pine blister rust, characteristics of blister rust cankers on eastern white pine, 17025
- White River Lakes, climatic summaries of resort areas, 14158
- White River National Forest, Maroon Bells-Snowmass Wilderness, general information, 12686
- White Sands Missile Range, N. Mex.:
test wells—
drilling, 8360
phase 1, 12778
Post Area, Dona Ana County, N. Mex., 14359
- White Sands National Monument, general information, 17294
- White spruce, *see* Spruce.
- White-winged doves, *see* Pigeons.
- Whitebread, Donald H., preliminary results of geological, geochemical, and geophysical studies in part of Virginia City quadrangle, Nev., 5707
- Whitehead, Allen H. jr., flow-field and drag characteristics of several boundary-layer tripping elements in hypersonic flow, 16192
- Whiteman, Marlorie M., digest of international law, 4962, 6272
- Whitewater River, flood plain information, 9699

- Whitlock, Charles H., inflation and performance of 3 parachute configurations from supersonic flight tests in low-density environment, 11487
- Whitman, Mildred W., contribution of medical schools and universities through advanced degree programs 1951-67 to training of medical school faculties, 10195
- Whitman, Reginald N., nomination, hearings, 9452
- Whitman, Robert A., mineral industry of Bolivia, 947, 14537
- Whitman, Ruth I., infrared horizon profiles for winter conditions from Project Scanner, 2231
- Whitmarsh, Charles L., jr.:
1-megawatt reactor design for Brayton-cycle space power application—
neutronics design, 4740
thermal analysis and core design, 4739
- Whitney, M. B., processing and display experiments using digitized ATS-1 spin scan camera, data, 14171
- Whittaker, Philip N., nomination, hearing, 15417
- Who needs safety training? 8545
- Who will listen? 13784
- Wholesale prices, *see* Prices.
- Wholesale trade:
census of business, 1967, area statistics, 11991-992, 15099-112, 16653-655
facts about wholesaling (series), 1613, 9094, 10590
major appliance wholesaling, facts, 10590
sales and inventories, current business reports, 2728
salesmen and saleswomen, employment outlook, 4546
see also names of commodities and industries.
- Whooping cranes, *see* Cranes (birds).
- Whorton, W. J., Extension Service review, 2811
- Why we test, 9086
- Wichita, Kans.:
area wage survey, 10020
100th anniversary of founding, commemorative medals—
law, 10680
reports, 7927, 9411
- Widows and widowers, *see* Pensions.
- Wiegandt, H. F., desalting of sea water by freezing, 803
- Wiendieck, K. W., improved wheel performance on sand by controlled circumferential rigidity, 11018
- Wierwille, Walter, synthesis methods for manual aerospace control systems with applications to SST design, 2191
- Wiese, W. L., atomic transition probabilities, sodium through calcium, 17263
- Wiesenet, Donald R., Millers River Basin, records of selected wells, test holes, borings, public water supply systems, and chemical analyses of water, 8350
- Wilbarger Creek, Colorado River Basin, Tex., 1966, compilation of hydrologic data, 12765
- Wilbur, Ted, naval aviation news, 3172
- Wilcox, J., tomato fruitworm, how to control it, 8970
- Wilcox, W. Wayne, changes in wood microstructure through progressive stages of decay, 683
- Wild animals, *see* Wildlife.
- Wild fowl, *see* Game and game birds.
- Wild Horse-Dry Creek:
floods—
plain information, 9675
Pueblo, Colo., how to avoid damage, 9708
- Wild life, *see* Wildlife.
- Wild Rice River and Valley:
dam and reservoir, construction, engineers report—
departmental edition, 610
document edition, 361
- Wilder, Charles S.:
acute conditions, incidence and associated disability, July 1967-June 1968, U.S., 11643
family use of health services, July 1963-June 1964, U.S., 13380
types of injuries, incidence and associated disability, July 1965-June 1967, U.S., 16376
volume of physician visits, United States, July 1966-June 1967, 1353
- Wilder, Vt., water resources appraisal for hydroelectric licensing, 8211
- Wilderness areas:
designate, proposal—
Desolation Wilderness in California—
hearing, 5451
report, 6767, 15258, 15275
Lincoln Back Country Wilderness in Montana, hearings, 4085, 6792
Ventana Wilderness in California—
hearings, 5451
law, 15206
reports, 6773, 12196
- Great Swamp, Pelican Island, Monomoy, Seney, Huron, Michigan Islands, Gravel Island, Green Bay, and Moosehorn, designate, hearing, 479
- Islands in Michigan, Wisconsin and Maine, designate, report, 9430
- Lincoln Back Country, establish, report, 10843
- Maroon Bells-Snowmass Wilderness, White River National Forest, general information, 12686
- Mission Mountains primitive area, Missoula and Lake Counties, Mont., mineral resources, 4350
- Monomoy Wilderness Area, designate, report, 9428
- Mt. Jefferson Primitive area, general information, 8285
national forests in Oregon Cascades, management direction for wilderness and primary recreation zones, 14269
national system, annual report, 9251
- Pelican Island Wilderness Area, designate, report, 9427
- Rawah Wilderness, Roosevelt National Forest, general information, 8289
studies related to wilderness primitive areas (series), 733, 4350, 14328-329
studies related to wilderness-wildlife refuges (series), 5700
- Uncompahgre primitive area, Colo., mineral resources, 733
users in Pacific Northwest, their characteristics, values, and management preferences, 8305
- Wildfire *see* Fires—Forest fires.
- Wildlife:
and range habitat publications issued in 1967 by Forest Service research personnel and cooperators, 7007
Appalachia, effects of surface mining, report, 1427
attractions, Norris Dam Reservation, 11749
code of Federal regulations, 8232
conservation in United States today, 13468
control, regulation, and management on Federal lands, by States, hearing, 16881
endangered species, prevent importation and interstate shipment of—
hearings, 7967, 12290
report, 12190
exploring world around us, birds, etc., 12431
fish and wildlife act of 1956, as amended, text, 3919
fish and wildlife coordination act, amend—
hearings, 12236
reports, 12185, 15276
supplemental report, 12186
fish and wildlife restoration, federal aid, 1426
habitat research, Pacific Southwest, 12691

- Wildlife—Continued
imported into United States, 10402
information leaflets, list, 10403
legislation, hearings, 409
making land produce useful wildlife, 7585
management of resident wildlife on Federal lands, by States, hearings, 461, 5432
1969 programs, 6257
publications, price list, 6169
rare and endangered fish of U.S., list, 7470
recreation and wildlife, BLM lands, south-east Utah, 12988
research problems, programs, progress, 13464
resources, surface mining effects, 13462
right to exist, report, 13463
saving forests and related wildlife resources from insects and diseases, 13599
special scientific reports, wildlife series, 6256, 7473-74, 13466, 14887, 16457-458
transmitters for tracking, 1922
wildlife leaflets, 1430-31, 10402-403, 13469, 14888
wildlife portrait series, 14889
wildlife review, abstracting service, 3605
see also Game and game birds.
- Wildlife management, in national parks, 16279
- Wildlife refuges:
Alaskan national, list, description, 2468
managers, 1969 address list, 2471
national—
lists, 1429, 8871
Pacific, regional (except Alaska), general information, 1414
southeast region 4, general information, 4946
National Wildlife Refuges of Puget Sound, general information, 2474
refuge leaflets, 1413-25, 2468-78, 4946-47, 6249-54, 7469, 8870-71, 10396-397, 11688-689, 13452-460, 16443-445, 17394
studies related to wilderness-wildlife refuges (series), 5700
see also names of refuges.
- Wildwood, N.J., floods, how to avoid damage, 12491
- Wiley, Llewellyn N., comparing prediction of job performance ratings from trait ratings for aircraft mechanics and administrative airmen, 11888
- Wilk, K. E., detection and presentation of severe thunderstorms by airborne and ground-based radars, comparative study, 11024
- Wilkinson, Thomas L.:
longtime performance of trussed rafters, initial evaluation, 685
strength evaluation of round timber piles, 7019
- Willamette National Forest:
designate Mount Jefferson Wilderness, report, 4046
Mt. Jefferson Primitive area, general information, 8285
national forest and national wilderness preservation system, 1968 annual report, 14269
- Willamette River and Valley:
Lambert Bend, Oreg., floodflow characteristics of proposed Greenacres Road crossing, 9937
Willamette River and tributaries, flood plain information, 12483
- Willapa National Wildlife Refuge:
birds, list, 2470
general information, 1424
- Willard, Joseph L., New Florencia, data processing, key punching, 7751
- Willcox basin, Ariz., geohydrology and water utilization, 7059
- Willett, Joseph W., impact of new grain varieties in Asia, 12421
- William, Phillip, jr., objective forecasting, 5081
- William Howard Taft National Historic Site, establish, reports, 15263, 15375
- William L. Pinley National Wildlife Refuge, general information, 16454
- Williams, Carroll B., jr.:
juvenile height growth of four upper-slope conifers in Washington and northern Oregon Cascade Range, 8306
seasonal height growth of upper-slope conifers, 691
- Williams, Catherine P., welfare in review, 3601
- Williams, Dancy T., unusual wind shifts of 2 wildfires, 8312
- Williams, David L., jr., address, Sept. 24, 1969, 15632
- Williams, Ellis T., forest taxation and preservation of rural values in New York, 6999
- Williams, Grover S., digest of public general bills and selected resolutions, 2768
- Williams, Jane C., improving educational opportunities for Mexican-American handicapped children, 8171
- Williams, Joel, library statistics of colleges and universities, fall 1968, data for individual institutions, 6881
- Williams, Michael D., parameters affecting firing time of simultaneously triggered trigatron spark gap switches, 7263
- Williams, Randolph, effects of extended high-temperature storage on performance characteristics of several strain gage pressure transducers, 16231
- Williams, Thomas F., remarks, May 26, 1969, 11635, 16335
- Williams, V. C., development of propane hydrate desalting process, 801
- Williamsburg, Ky., floods, how to avoid damage, 12521
- Williamson, Homer T., sr., relief, 9399
- Williamson, R. A., considerations in earthquake resistant design of nuclear power plants, 5156
- Willis, Edward A., jr., two-burn escape maneuvers with intermediate coasting ellipse, 4737
- Williston, Hamlin L., clearcutting and planting best for regenerating pine in northern Mississippi, study, 8299
- Willoh, Ross G., mathematical analysis of supersonic inlet dynamics, 2263
- Willot, James F., auditory feedback and helium speech, 8573
- Willow Springs, Ill., railroad accident, report, 11081
- Wilmerding, Pa., housing for the elderly, community improvement (address), 769
- Wilmington, Del.:
motor carrier accident, 11395
riots, civil and criminal disorders, investigation, hearings, 475
- Wilmington Canyon:
sediment texture, bottom current activity, and benthonic organisms in Wilmington submarine canyon, photographic investigation, USCGC Rockaway-Smithsonian Institution cruise, 9198
USNS Lynch (T-AGOR) seismic survey, oceanographic cruise summary, 13258
- Wilmont, Charles A., cotton gin operating costs in west Texas, 6386
- Wilson, B. J., characteristics of improved inert-cathode/magnesium-anode sea-water battery, 1259
- Wilson, Basil W.,
tsunami of Alaskan earthquake, 1964, engineering evaluation, 4198
- Wilson, D. F., some investigations of sound-scattering layers near Key West, Fla., 13276
- Wilson, David J., sensitivity of the creep-rupture properties of nickel-base superalloy sheet to sharp edge-notches in temperature range of 1000°-1400°, 4679

- Wilson, F. D., effects of age, plant spacing, and other variables on growth, yield, and fiber quality of kenaf, 10502
- Wilson, I. Dodd, serum enzyme changes after physical exertion, 14504
- Wilson, James E., Apollo program management, 15327
- Wilson, James F., jr., movement of solute in Potomac River estuary at Washington, D.C. at low inflow conditions, 14337
- Wilson, John W., analysis of numerical integration techniques real-time digital flight simulation, 1117
- Wilson, K. H., effect of ablation product absorption and line transitions on shock layer radiative transport, 5974
- Wilson, Lloyd W., oceanographic surveys, 13266
- Wilson, Truman, self-employed doctors of medicine under OASDHI, 8857
- Wilson, V. C.:
characteristics of thermionic converter with—
chloride vapor deposited tungsten emitter (110) and nickel collector, 14587
fluoride vapor deposited tungsten emitter etched to preferentially expose 110 crystal planes, 14571
- Wilson, Will, nomination, hearing, 5455
- Wilson, Woodrow, President, personal and confidential letters from Secretary of State Lansing, pamphlet to accompany microcopy, 1170
- Wilson Creek, and tributaries, flood plain information, 9700
- Wilt diseases, nyctitropic movement as false wilt symptom of cotton, 14974
- Winard, Arno T., trends in social and economic conditions in metropolitan areas, 8860
- Wind, *see* Winds.
- Wind profiles, *see* Winds.
- Wind River, basin, Wyo., watershed, management, program, appraisal, 12756
- Wind River Indian Reservation, groundwater resources, 8382
- Wind tunnels:
and analytical study of conversion from wing lift to rotor lift on composite-lift VTOL aircraft, 11471
arc-tunnel wind tunnel, free-stream electron concentration in and correlation of Langmuir probe and microwave interferometer measurements, 17245
full-scale wind-tunnel investigation of static longitudinal and lateral characteristics of light twin-engine airplane, 4716
high-enthalpy arc tunnel at Langley Research Center including test-stream conditions at selected operating points, description, 13095
investigation—
aerodynamic characteristics of twin-keel parawing, 8647
improve low-speed longitudinal stability at high lift of supersonic transport with variable sweep wings, 4733
low-speed high-lift aerodynamics of one-fifth scale variable-sweep supersonic transport, 1076
semirigid full-scale rotors operating at high advance ratios, 6461
steady-state aerodynamics of composite-lift VTOL aircraft model, 11460
STOL aircraft configuration equipped with external-flow jet flap, 14617
large jet transport model equipped with external-flow jet flap, investigation, 2238
large-scale, investigation M1-1 lifting body with inflatable and rigid afterbody, 17226
one compound, magnetic, support and balance system for wind tunnel models, 10088
- Wind tunnels—Continued
results, correlation with flight-determined aerodynamic properties of jet-augmented auxiliary-flap, direct-lift-control system, 10109, 13070
Saturn V, S-IVB panel flutter qualification test, final report, 17222
study of deflected-elevator flutter encountered on t-tail airplane, 4746
- Windows:
8-12 micron atmospheric window over Indian Ocean area, atlas of TIROS VII monthly maps of emitted radiation, 10106
glovebox window materials, fire safety application, 6474
methods for predicting spacecraft-window-induced line-of-sight deviations, 13076
postflight optical evaluation of right-hand and left-hand windows of Gemini missions IV, V, VI, and VII, 2234
- Winds:
deposition and erosion of snow, 1573
ground wind characteristics at Kennedy Space Center, 16134
Jimsphere wind profiles as related to space, vehicle design and operations, study, 1023
numerical forecasting of wind fields and wave conditions, USSR study, 8508
turbulent wind field below 150M altitude at Eastern Test Range, investigation, 14582
unusual wind shifts of 2 wildfires, 8312
upwind-downwind-crosswind sea-clutter measurements, 14748
wind speed of tropical storms from high resolution infrared data, estimating maximum, 9727
windspeeds, digital indicator for maximum, 12702
- Windward Islands:
Dominica—
Bredin-Archbold-Smithsonian biological survey, 1208, 4796, 8709, 13417-418, 13428, 17374
freshwater and terrestrial decapod crustaceans, 8709
mosquitoes (Diptera: Culicidae), 13428
Phoridae (diptera), 17374
West Indian Stenomitidae (Lepidoptera: Gelechioidea), 13418
myxomycetes, from Dominica, 4796
- Wine, *see* Liquors.
- Winfield, Kans., Walnut River floods, how to avoid damage, 9709
- Winger, Ray J., jr., Pa Mong project, lower Mekong River basin, report on drainage investigations and requirements, 13397
- Wingquists, Carl F., elastic moduli of rock at elevated temperatures, 11384
- Wingrove, Rodney C., technique for identifying pilot describing functions from routine flight-test records, 10108
- Wings (aircraft):
aerodynamic characteristics of twin-keel parawing, wind-tunnel investigation, 8647
airplane model with double-delta wing, including longitudinal and lateral characteristics and ground effects, large-scale tests, 7276
all-flexible parawing—
of an advanced Apollo spacecraft, fixed-base visual simulation of pilot-controlled descents, 7255
opening characteristics, investigation, 6001
arrow-wing-body model at Mach numbers of 1.60, 2.36, and 2.96, flow-field properties, 1060
computing span loads and stability derivatives due to sideslip, yawning and rolling for wings in subsonic compressible flow, theory, 2239

- Wings (aircraft)—Continued
 conversion from wing lift to rotor lift on composite-lift VTOL aircraft, wind tunnel and analytical study, 11471
 delta, slender sharp-edge, in ground proximity, lift and drag, prediction, 4704
 delta wings, tuft-grid surveys at low speeds, 6006
 drag reduction due to gas injection through various discrete slots, at Mach 2.01, on 3-dimensional wing, 13101
 fabrication and testing of composite materials, 1588
 helium penetration and spreading in Mach 2 airstream using delta wing injector, study, 11494
 large semispan tilting wing, etc.—aerodynamic data, 4741
 0.4-diameter-chord, single-slotted flap, and single propeller 0.22 chord below wing, pressure distribution, 17231
 leading-edge—
 effects on laminar flat-plate boundary layer and aerodynamic heating at Mach 10.4, 8636
 separation, aerodynamics of slender wing-body combinations, theoretical investigation, errata, 992
 lifting horizontal-axis rotating-wing aeronautical systems (HAKWAS), review and evaluation, 13677
 low-aspect-ratio wing-body combinations at transonic speeds, effects of flexibility on lift and pitching moment characteristics of series, 1051
 low-density, leading-edge bluntness, and ablation effects on wedge-induced laminar boundary-layer separation at moderate enthalpies in hypersonic flow, 2226
 nonplanar, numerical solution for minimum induced drag, and corresponding loading, 2197
 parasol-wing-body combination utilizing favorable lift interference at Mach numbers 3.00 to 4.63, 1081
 sailing of aspect ratio 5.9, aerodynamic characteristics, full-scale investigation, 6007
 scale factors for parawing opening characteristics with dimensional ratios, experimental verification, 6017
 75° swept delta wing with trailing-edge flap at Mach 6 and angles of attack to 90°, pressure and heat transfer, 16171
 supersonic nacelle-wing interference, numerical method for evaluation and utilization, 7259
 swept-wing, twin-jet fighter airplane, analysis of flat-skin characteristics, 16166
 symmetrical and cambered delta wing configuration at Mach numbers from 2.0 to 10.7, experimental and theoretical investigation, 13086
 tip-turbine-driven fans for lateral control in hovering VTOL aircraft, 17238
 variable-sweep wing on supersonic transport model, low subsonic flight and force investigation, 1053
see also Airfoils.
- Winnebago County, Wis.:
 floods—
 how to avoid damage, 15654
 plain information, 15657
- Winston, Jay S., Atlas of world maps of long-wave radiation and albedo, 1837
- Winston, Matthew M., wind-tunnel investigation of steady-state aerodynamics of composite-lift VTOL aircraft model, 11460
- Winston Churchill Memorial and Library: medal in commemoration of dedication—
 law, 9238
 reports, 6765, 7925
- Winter, Jerry M.:
 design of injectors and ablative thrust chambers for flox-propane rocket engine with 1.2 inch throat diameter, 11496
 development of improved throat inserts for ablative rocket engines, 13067
- Winter, recreation areas, basic waste characteristics, progress report, 12654
- Winter wheat, *see* Wheat.
- Winterfat, seeds, age and year of collection affect germination, 1920
- Wiping rags, *see* Rags.
- Wire:
 as rocketsonde temperature sensors in mesosphere, theoretical comparison, 4688
 fabrics and structure, classification definitions, 2379
 fine polycrystalline, nickel wires, effect of size on tensile strength, 1104
 products, trade and tariff information, summaries, 1463
 refractory-metal wires at 2000° and 2200° F. stress-rupture and tensile properties, 7297
 specimen tests, oxidation resistant materials for transpiration cooled gas turbine blades, 1012
 winding long, slender coils by orthocyclic method, 7649
see also Electric wire and wiring—Exploding wire.
- Wire mills:
 scrap and metal consumption and stocks, mineral industry survey, monthly, 2629
 shapes, inventories, current industrial reports, 2732-33
- Wire screens, *see* Screens.
- Wiring, *see* Electric wire and wiring.
- Wisander, Donald W., friction and wear of 9 selected polymers with various fillers in liquid hydrogen, 6018
- Wisconsin:
 Agricultural Stabilization and Conservation Service, annual report, 11856-857 by Congressional districts, 11858
 census of business, 1967—
 retail trade, area statistics, 13753
 selected services, area statistics, 16652
 wholesale trade, area statistics, 16655
 climatological data, 2662
 electric rate book, 5618
 Federal outlays, report of Federal Government's impact by State and county, 9581, 9631
 landings, fish and fishery products, 3117, 10663
 mineral industry, minerals yearbook chapter, 2167
 northern white-cedar gross basal area growth is independent of stand density over wide range, 4307
 pollution of interstate and intrastate waters of upper Mississippi River and its tributaries, conferences, proceedings, 1897
 pollution of Lake Michigan and its tributary basin, conference proceedings, 14242
 precipitation data, hourly, 2962
 uranium reconnaissance, preliminary, 13709
 water resources data, 8381
- Wise, John P., Japanese Atlantic longline fishery, 1965, and status of yellowfin tuna and albacore stocks, 7816
- Wiseman, John E., use of Snyder's caries activity test in oral hygiene effectiveness monitoring, 5930
- Wishna, Sheldon, solar effects on VHF communications between synchronous satellite relay and earth ground stations, 8618
- Wisner, Leland F., scheduled air taxi operators as of Nov. 1968, 8204

- Witchcraft, from witchcraft and sorcery to head shrinking, society's concern about mental health, 4881
- Witherell, Julian W., Ghana, guide to official publications, 1872-1968, 14483
- Withholding tax :
 employer's tax guide, 5765
 supp., 9978
 tax withholding and declaration of estimated tax, 8453
 withholding of tax on nonresident aliens and foreign corporations, 8456
see also Income tax.
- Witkin, Michael J., patients discharged from short-stay hospitals by size and type of ownership, 2433
- Witkind, Irving J., geology of Tepee Creek quadrangle, Mont.-Wyo., 12782
- Witmer, T. Richard, documents on use and control of waters on interstate and international streams, etc., 3946
- Witschy, Marianne P., household income in 1968 and selected social and economic characteristics of households, 16668
- Wives, working, their contribution to family income, 5008
- Woerrlein, H. H., eliminating radar ambiguities by processing staggered pulse trains or spectra, 7379
- Wolf, Elinor, reveille for volunteers, 6898
- Wolf, James S., proposed model for effect of oxidation on high-temperature deformation of nickel, 10153
- Wolf, Ken :
 blue-sac disease of fish, 11686
 lymphocystis disease of fish, 1411
 virus disease of sockeye salmon, 11685
- Wolf Lake, pollution of interstate waters, Ill.-Ind., conference proceedings, 11146
- Wolf-Rayet stars, 2287
- Wolf River, flood plain information, 15654, 15657
- Wolff, Karl Dietrich, testimony, hearing, 6796
- Wolford, Thomas C., oceanography of Grand Banks region and Labrador Sea in 1966, 15154
- Wolfson, David E. :
 carbonizing properties of coals from Nicholas, Randolph, and Webster Counties, W. Va., 5958
 destructive distillation of scrap tires, 16102
- Women :
 absenteeism and labor turnover, facts, 17442
 American 1968.
 labor standards, task force report, 792
 by number of children under 5 years old—
 current fertility by social and economic characteristics, census of population, 251
 1968 and 1967, population characteristics, 9155
 careers, conservation work, 8939
 children born to women, changes in average number, 1960-69, advance data, 5213
 commissions on status of women, national conference report, 12824
 education attainment, trends fact sheet, 17440
 employment in Federal Government, study, 15149
 employment of mature women, how you can help reduce barriers, 7563
 employment opportunity (remarks), 8538
 equal pay, what you want in State bill, 8940
 high cost of sex discrimination in employment practices, 5566
 impact injury to pregnant female and fetus in lap belt restraint, 10580
 in war on poverty, 8147
 Job Corps vocational programs, 5320
 job horizons in District of Columbia, conference report, 17443
 job patterns in private industry, 4226
- Women—Continued
 job training suggestions, 2544
 marines, physical fitness test standards, 14505
 mathematician, why not be one? career, 1494
 message about cancer screening, 13345
 nonwhite, educational attainment, fact sheet, 2543
 officers in U.S. Air Force, 7636
 private household workers, fact sheet, 11785
 professional and technical positions, fact sheet, 5006
 sex discrimination in employment practices, report from conference, 11783
 toward job equality for women, 15677
 underwear and blouse industry, Puerto Rico, under fair labor standards act, minimum wage rates, 11776
 war on poverty, conference proceedings, 561
 weightlifting provisions by State, 13536
 why not be a personnel specialist? 2545
 woman's status in industry, business, society, etc. (address), 876
 women's bathing and swimming costume in United States, 4792
 workers, United States, background facts, 1492
- Women workers, *see* Women.
- Women's Army Corps :
 new life, new world, career opportunity, 138
- Women's Bureau :
 Director, nomination of Elizabeth Duncan Koontz, hearing, 5462
 leaflets, 1493-94, 2544-45, 8939
 publications, list, 1493
- Women's clothing, *see* Clothing.
- Wong, Dug Foo, relief, 13952, 16753
- Wong, Xui, and wife, relief, 13969, 16749
- Wong Wah Sin, relief, 6744
- Wood, Allen D., radiant energy transfer measurements in air, 16124
- Wood, Gordon H. jr.,
 geology of west-central part of Southern Anthracite field and adjoining areas, Pennsylvania, 7054
 systematic jointing in western part of anthracite region of eastern Pennsylvania, 4351
- Wood, L. E., technique for improving accuracy of air-to-ground radio distance measurement systems, 9724
- Wood, Robert C., remarks, Oct. 24, 1968, 4391
- Wood, Valerie A., collection of radium leak test articles, 13353
- Wood :
 and related products, trade and tariff information, summaries, 1460
 chemistry, list of publications, 670
 chip piles, new method for appraising decay capabilities of micro-organisms in, 15762
 dividends from research, list of publications, 4297, 7001
 durable rustic wooden signboards, 17040
 exposed, influence of design in buildings of Puget Sound area, 4302
 fifteen exotic woods imported for exterior use, natural decay resistance, 11132
 films of four adhesives used with wood, stress-strain behavior, 1911
 house foundation of treated wood after 30 years service, 688
 initial fungus attack on tropical woods in Panamanian estuarine waters, 10248
 longitudinal shrinkage in 7 species, 12697
 loss of moisture, effect of transverse compressive stress, 677
 machining abstracts, 699
 materials, some factors affecting moisture timelags, 11185
 microstructure, changes, through progressive stages of decay, 683

- Wood—Continued
moisture content—
effect of restrained swelling, 676
glulam timbers in Pacific Northwest, 8283
needs of future, hearing, 4101
picnic structures, market, 17041
processed, can Webb-Pomerene act help U.S. sell more to Japan? 12713
products, increase supply, hearings, 10763
publications, price list, 10292
research, dividends, publications, list, 14258
sections exposed to fire, simplified test for adhesive behavior in, 4305
stake tests, comparison of wood preservatives, 1969 progress report, 12695
tension wood effect on hard maple for manufactured parts, 15763
thermal insulation from wood for buildings, effects of moisture and its control, 684
trade and tariff information summaries, 14939
used in manufacturing industries, 16558
waste, entrainment drying and carbonization, 13026
wood properties, classroom demonstrations, 7611
wood sawing, classification definitions, 2366
woodusing industries, system for classifying and recording statistics for automatic data processing, 11183
see also Lumber—also names of articles manufactured from wood.
- Wood ducks, habitat management, 16435
- Wood fiber, trends of fibril angle variation in white ash, 689
- Wood finishing:
water-repellent preservatives, 674
wood turning, classification definitions, 1279
- Wood poles, *see* Poles.
- Wood preservatives:
comparison in Mississippi post study, progress report, 11171
comparison, stake tests, progress report, 12695
preservative treatments for protecting wood boxes, 12708
water-repellent preservatives, wood finishing, 674
- Wood pulp:
chips, control of deterioration with kraft green liquor, 15764
current industrial reports, 2732
production in Northeast, 15776
production, southern, 1937
pulpwood prices in Southeast, 1926
pulpwood production and consumption in the north central region by county, 11191
red alder pulpwood and saw logs, marketing, 12700
- Woodcocks, hunting, possession, transportation, importation, 1969-70, Federal regulations governing, 13461
- Woodcuts, Werner Drewes, catalogue, 14677
- Woodlands, *see* Forests and forestry.
- Woodmansee, Walter C.:
mineral industry of—
Israel, 16084
Libya, 13016
United Arab Republic, 5949
- Woodpulp, *see* Wood pulp.
- Woodrow Wilson International Center for Scholars:
establish in Smithsonian Institution—
law, 343
report, 443
- Woodrow Wilson Memorial:
act of 1968—
law, 343
report, 443
- Woodruff County, Ark., community profile, 15611
- Woods, F. J., vapor-phase oxidation of hydrocarbons, effect of oxygen concentration on platinum-catalyzed combustion and ionization, 13284
- Woods, *see* Forests and forestry.
- Woodson, Floyd B., technical evaluation of Eidophor, 6314
- Woodworking:
glues, selection and properties, 4303
tools, classification definitions, 1280
- Woodworking machinery:
and equipment, Federal item identification guides for supply cataloging, supplements, 2843
wood turning, classification definitions, 1279
- Woody plants, *see* Plants.
- Wool:
and wool tops, futures trading and open contracts, 2929
broadwoven goods, current industrial reports, 2733, 3859
consumption on woolen and worsted systems, current industrial reports, 2732
domestic, marketing system, 12408
fabrics, Tariff Commission report, 4985
foreign agriculture circulars, 2902
futures, commitments of traders, 2679
market news, weekly summary and statistics, 3081
production, price and value, 8910
program, 1967 marketing year report, 11859
statistics and related data, 1968 supplement, 7615
wool situation, 3606
- Woolam, John A., galvanomagnetic and thermomagnetic effects in white tin in fields to 3.3 tesla and at temperatures between 1.2 and 4.2 K, 10142
- Woolens:
machinery activity, current industrial reports, 12007
protecting against cloths moths and carpet beetles, 7589
- Wooten, Carl B., portable cesium irradiator operational reports, 13701
- Worcester, Mass., area wage survey, 16022
- Word division, *see* Words.
- Words:
division, supplement to style manual, 9938
relationship of galvanic skin response to emotion-evoking properties of words, 11373
- Work:
accent on youth, work experience programs for disadvantaged, etc., 15148
child welfare personnel, Federal grants for training, 5236
equal pay for equal work under fair labor standards act, 2540
experience and training, administration and effectiveness of project, under title 5 of Economic opportunity act of 1964, GAO report—
Becker and Mahanomen Counties, Minn., 11201
Carroll, Chariton, Lafayette, and Saline Counties, Mo., 12728
Gila River Indian Reservation, Ariz., 11202
Jackson County, Mo., 12729
Kent County, Mich., 7024
Lake County, Ind., GAO report, 8327
Los Angeles County, Calif., 11203
Maricopa County, Ariz., GAO report, 8328
St. Louis City and St. Louis County, Mo., 12730
Wayne County, Mich., 12731
improved use of time for scientific research work needed, USSR study, 846
incentive program—
for public assistance recipients, 5440
from welfare to wages, 4467, 14442

- Work—Continued
 - job performance ratings, comparing prediction, from trait ratings for aircraft mechanics and administrative airmen, 11888
 - performance measure, officer effectiveness report, research review, 11889
 - errata, 16560
 - poor people at work, 10363
 - resources and work force management
 - civil engineering, Air Force manual, 7624, 13612
 - safe work guide, Department of Labor
 - safety training programs, SWG LS series, 5891, 17147-151
 - training in industry, training out-of-school youth for available jobs, 7166
 - transition from school to work in selected countries, 16030
 - vocational education, bridge between man and his work, 1817
 - work and workers—
 - in urban areas, changing patterns, 16026
 - some aspects of changing patterns in urban environment, 14470
 - work experience programs under economic opportunity act, monthly report, 2554
 - workdown structures for defense materiel items, military standard, 4135
 - see also Collective bargaining—Employment—Occupations.
- Work injuries, see Injuries.
- Work permits, see Child labor.
- Work stoppages, see Strikes and lockouts.
- Workbooks, training tips for Head start staff on parent involvement, 9638
- Workers, see Labor—Women.
- Working clothes, see Clothing.
- Working Committee on Utilities, report, 13330
- Working for U.S.A., 13790
- Working forest, 4336
- Working wives, their contribution to family income, 5008
- Working women, see Women.
- Workman, Wilton L., reliability handbook for silicon monolithic microcircuits, failure analysis of monolithic microcircuits, 8601
- Workmen's compensation, see Employers liability and workmen's compensation.
- Workshops :
 - for college deans and campus security officials, 8587
 - 7th workshop meeting on public welfare and statistics, methodology for today's tasks, proceedings, Aug. 27-30, 1967, San Francisco, Calif., 4032
 - sheltered, special minimum wages for handicapped workers in, 1489
 - sheltered, standards, 7440A
- Worktime required to buy food and other articles, 5915
- World, see Earth—also specific subjects.
- World affairs, see International relations.
- World agricultural production and trade, statistical report, 1905, 3609
- World agricultural situation, review of 1968 and outlook for 1969, 5531
- World Data Centers, A, Upper Atmosphere Geophysics, activities, etc., 1843
- World Health Organization, U.S. participation, program administered by State Dept. and Health, Education, and Welfare Dept., GAO report, 1953
- World Intellectual Property Organization, convention establishing, text, 5395
- World list of future international meetings, 3610
- World military expenditures and related data, 3731
- World motor vehicle production and registration, 6488
- World peace, see Peace.
- World Power Conference, nuclear power papers, 2091
- World trade, see Commerce.
- World War, 1914-18, see European War, 1914-18.
- World War, 1939-45 :
 - crisis fleeing, military medicine in India and Burma, original reports, 15061
 - 1st Army in Europe, print as Senate document, report, 9423
 - internal medicine, infectious diseases and general medicine, 6463
 - liberation of Guam, 12991
 - Marine Corps operations, victory and occupations, 16042
 - medical supply operation, 184
 - Salerno to Cassino, Mediterranean theater of operations, 16071
 - tribute to Allied World War II victory in Europe report, 7933
 - United States Army in World War II, 16071
 - global logistics and strategy, 4618
- World War I veterans, see Veterans.
- World War II, see World War, 1939-1945.
- World weather program, plan for 1970 fiscal year, 5294
- Worms :
 - and insects harmful to man, animals, and plants, publications, price list, 8789
 - helminthology, USSR academian Skryabin feted for contributions, 2080
 - see also Anchor worm—Annelids—Kinorhyncha.
- Worrel, Stephen W., basic data on economy of Chad, 12069
- Worsted :
 - machinery activity, current industrial reports, 12007
 - systems, consumption, current industrial reports, 2732
- Worth, acquisition and development of values, perspective on research, conference report, 14682
- Worth County, Mo., soil survey report, 2465
- Worthington, J. T., comparison of keeping quality of Jonathan and of red delicious apples stored in field boxes or prepackaged in film bags, 8946
- Wortz, E. C. :
 - man's capability for self-locomotion on the moon—
 - detailed report, 16128
 - summary report, 16129
 - study of astronauts extravehicular work capabilities in weightless conditions, 10080
- Woven goods, see Textiles.
- Woven strands, cooperation in Central America, 2488
- WPL, see Wave Propagation Laboratory.
- Wrapping, see Packaging.
- Wray, R. P., salivary thiocyanate secretion during fleet ballistic missile submarine patrol, study, 8578
- Wrecking :
 - demolishing buildings, savings available in Federal share of cost, GAO report, 724
 - dismantling railroad freight cars, improved methods, study, 17335
- Wright, Bruce H., regional and sectoral analysis of wheat-flour economy, transportation study, 16548
- Wright, David L., analysis of electromagnetic waves on dielectric rod immersed in plasma, applications, 1089
- Wright, Edward L., probability density functions of n vectors added with random directions, 16316
- Wright Brothers National Memorial, general information, 8736
- Wrightsville Beach Test Facility, sea water conversion, 14408
- Writers, see Authors.
- Writing :
 - Air Force writing, administrative communications, 11893

Writing—Continued
 biomechanics of writing, USSR study, 12918
 effective Revenue writing, basic course, 17100
 Writing paper, white and colored, Federal standard, cancellation, 4284
 Writings on American history: departmental edition, 15028
 document edition, 15217
 WRSIC, *see* Water Resources Scientific Information Center.
 WS series, 2924
 Wu, D. C. F., slope diffraction analysis of TEM parallel-plate guide patterns, 10077
 Wu Hip, relief, 13954
 Wuergassen Nuclear Power Plant, information report, 5136
 Wulforst, John P., soil survey of Genesee County, N.Y., 10382
 Wupatki National Monument, general information, 7358
 Wylie, Kathryn H., survey of agriculture in Cuba, 10970
 Wynne, E. Staten, unique altitude chamber for infectious disease research under aerospace profiles, 3702
 Wyoming:
 ASCS annual report, 11860
 census of business, 1967—
 retail trade, area statistics, 9115
 selected services, area statistics, 15098
 wholesale trade, area statistics, 15112
 climatological data, 2662
 electric rate book, 1882
 Federal outlays, report of Federal Government's impact by State and county, 9582, 9632
 in vitro digestibility of alpine forages, 14288
 Irrigation council, annual meeting, proceedings, 4908, 10348
 mineral industry, minerals yearbook chapter, 2168
 national forests, multiple use of resources, 14274
 National Park Service Wyoming Governor's book, 13196
 precipitation data, hourly, 2962
 resource planning, how soil surveys help, 14871
 Tepee Creek quadrangle, geology, 12782
 Upper Niobrara River compact, congressional consent—
 law, 15200
 reports, 10862, 12169
 water resources data, 9927-28, 12795
 water supply outlook and snow surveys, 3592

X

X-15, *see* Airplanes.
 X-ray apparatus:
 Kennedy round, special report, 5800
 medical X-ray diagnostic machines development and evaluation of automatic collimator, 6191
 surveys of facilities with medical X-ray equipment, preliminary results, of X-ray protection, 6189
 X-ray films, dental surpak, summary report, 11619
 X-ray technicians, medical employment outlook, 4524
 X-rays:
 analysis using radionuclide sources, final report, 6469
 angular positions of X-ray emission lines of elements for common analyzing crystals, 4621
 dental X-ray teaching and training replica, 2421
 diffraction, powder patterns, 14665

X-rays—Continued
 medical diagnostic machines development and evaluation of automatic collimator, 6191
 medical X-ray Kodak no-screen film, intensification and reduction, 6138
 monoenergetic, from alpha emitting isotopes, generation and practical use, 5163
 NRL SOLRAD 9 satellite, Solar Explorer B, 1968-17A program, 13283
 Panorex X-ray machine, head positioning for, 928
 population dose, U.S. 1964, gonad and genetically significant dose estimates from X-ray exposure study, 16365
 protection, surveys of facilities with medical X-ray equipment, preliminary results, 6189
 S-2-(3-aminopropylamino) ethyl phosphorothioic acid hydrate as radioprotectant in rodents and primates, 3716
 solar X-ray emission during flight of Apollo 8, 13304
 State programs, past, present, and future, symposium, 11611
 studies of coals and carbonaceous materials, 4619
 using solar X-rays as indicators of solar-flare activity, 13295
 X-ray continuum radiation in plasmas, determination of electron temperatures between 50 eV and 100 keV, 6139
 Xenon:
 and xenon-mercury, short-arc lamp immersed in water, operating characteristics, 11567
 behavior of xenon-133 gas after injection underground, molecular diffusion, materials balance, and barometric pressure effects, 16623
 Xenon isotopes, 130, populated by beta decay, excited states, 13110

Y

Y.O.U., *see* Youth Organizations United.
 Yaffe, Charles D., address, May 14, 1969, 16367
 Yaghami, Saeed, incremental analysis of large deformations in mechanics of solids with applications to axisymmetric shells of revolution, 11410
 Yakima project:
 Kennelwick division extension, construction, etc.—
 hearings, 6791, 9352
 law, 15214
 reports, 6768, 10715, 10732
 Yakobson, Sergius, aspects of intellectual ferment and dissent in Soviet Union, 1720, 1741
 Yakowitz, H., standard reference materials, homogeneity characterization of NBS spectrometric standards, preparation and microprobe characterization of W-20 percent Mo alloy fabricated by powder metallurgical methods, 4762
 Yancey, Robert M., Atlantic Coast surf clam, 320
 Yandle, David O., southern yellow pine tree overruns and lumber width distributions, 1935
 Yang, Andrew Chu, relief, 13955
 Yang, J. Y., development of radioactive pebble bed chemical reactor system, phase 2 report, 13703
 Yap-Diango, Ana M., relief, 6621, 8002, 12082
 Yarger, William E.:
 body armor in hot humid environment, studies in—
 heat acclimatized men, 16057
 unacclimatized men, 14512

- Yarn:
cotton-dacron blended, mechanics of rupture, 3757
elastic yarns, etc., trade and tariff information, summaries, 1461
quality, and spinning performance as affected by lint color and trash in field-exposed cotton, 1966-67 crop year, 13594
spun, for sale, current industrial reports, 2732
spun silk, suspension of duty, continue—law, 12113
reports, 1903, 9436
- Yau Ming Chinn, *see* Chinn, Yau Ming.
- Yaw:
flightworthy fluidic damper, fabrication and functional test, 1587
roll and yaw, compensation feasibility study, 4661
- Yazoo River and Valley, flood plain information, 9680, 12466
- Yearbooks:
agriculture, 1948-68, Government publications, list, 8786
HUD, 1967 statistics, 15837
Intermountain region, Forest Service, 12689
minerals, 1967, area reports, domestic—departmental edition, 5952
document edition, 5320
international—
departmental edition, 5582
document edition, 7837
metals, minerals, and fuels—
departmental edition, 4633
document edition, 3945
- Yeast, conversion of organic solid wastes, economic evaluation, 13335
- Yee Foo Ying, relief, 8009
- Yee Fook, *see* Wong Wah Sin.
- Yeend, Warren E., quaternary geology of Grand and Battlement Mesas area, Colo., 8353
- Yell County, Ark., community profile, 15612
- Yellow birch, *see* Birch.
- Yellow jackets, *see* Wasps.
- Yellow lens testing, laboratory study, 3701
- Yellow pine, *see* Pine.
- Yellow poplar, *see* Tuliptree.
- Yellow Sea, temperature, salinity, and density, 13218
- Yellowfin tuna, *see* Tuna fish.
- Yellowstone National Park, general information, 1230
- Yellowtail Dam and Reservoir, *see* Missouri River Basin project.
- Yellowtail unit, *see* Missouri River Basin project.
- Yeloushan, Charles C., mineral industry of Pennsylvania, 4626
- Yemen, southern, economic trends and their implications for United States, 11304
- Yen, Yin-Chiao, thermal instability in layer of water formed by melting ice from below, 7648
- Yeoman, 1 & C, Navy training course, 10247
- Yergen, Walter E.:
free field input data formatting scheme, 13248
free field rapid access format for BT profiles, 13261
guide to formatting of oceanographic data, 13230
- Yerkes, Vern P., composting ponderosa pine bark, effects of nitrogen addition and aeration, 5678
- Yevreinova, T. N., concentration of matter and action of enzymes in coacervates, 17255
- Yobe River, surface water resources, northern Nigeria, 15810
- Yochelson, Ellis L., Teichispiria, new Early Ordovician gastropod genus, 4367
- Yoho, James G., marketing of red alder pulpwood and saw logs, 12700
- Yokosuka, Japan, marine biofouling studies, oceanographic cruise summary, 2327
- Yolles, Stanley F., from witchcraft and sorcery to head shrinking, society's concern about mental health, 4881
- Yoon, In Rae, relief, 16840
- York, Harold F., mineral industry of Vermont, 969
- York, Pa., area wage survey, 10028
- Yosemite (U.S.S.):
deployment to Malta, maritime matters, agreement, 17410
- Yosemite National Park:
face of Half Dome (poster), 6088
general information, 8737
giant sequoias (poster), 6089
- Yoshikawa, Kenneth K., linearized theory of stagnation point heat and mass transfer at hypersonic speeds, 13078
- Yost, Charles A., human race in aircraft emergencies, 4678
- Yost, Donald A., soil survey, Scotts Bluff County, Nebr., 6247
- You and the draft, 14853
- You and your passport, 2485
- You as an Air Force physician, 106
- You, the Air Force officer, 16576
- Youden, W. W., computer literature, bibliography, 1964-67, 2289
- You'll never be the same! 5132
- Young, Clarence P., jr., analysis of aeroclastic divergence of two experimental unguided launch vehicles, 1077
- Young, Earl H.:
audio-visual equipment and materials, guide to sources of information and market trends, 9092
German photographic products industry and market, 15085
photographic products industry and market in United Kingdom, 15087
- Young, Richard E.:
monograph of Cephalopoda of North Atlantic—
family Cycloteuthidae, 13419
family Joubiniteuthidae, 13427
- Young, Robert J., behavioral and physiologic responses of *Macaca mulatta* monkeys to supralethal doses of radiation, 1542
- Young, Soon-Hie Cho, relief, 4027
- Young, Stanley G.:
effect of temperature and pressure on cavitation damage to cobalt base alloy in sodium, 11478
effect of ultrasonic vibration on precipitation hardening of steels and superalloys, 7292
- Young, W. H., coal, bituminous and lignite, 932
- Young people, *see* Youth.
- Young workers, *see* Youth.
- Younger, Charles L., effect of nuclear radiation at cryogenic temperatures on tensile properties of titanium and titanium-base alloys, 16186
- Youngstown, Ohio, area wage survey, 8552
- Your Department of State, 11702
- Your Federal income tax for individuals, 2021
- Your first job . . . a key to your future, 12054
- Your medicare handbook, 7463
- Your Navy, from viewpoint of nation's finest artists, 16320
- Your personal affairs handbook, 16594
- You're in good company, millions of Americans use USDA food stamps, 16553
- You're on camera in color, 15002
- Yours is the world—if! 10661
- Yours to preserve, 13200
- Youshaw, Robert A., video tape recording of ultrasonic test information, 2445

Youth:

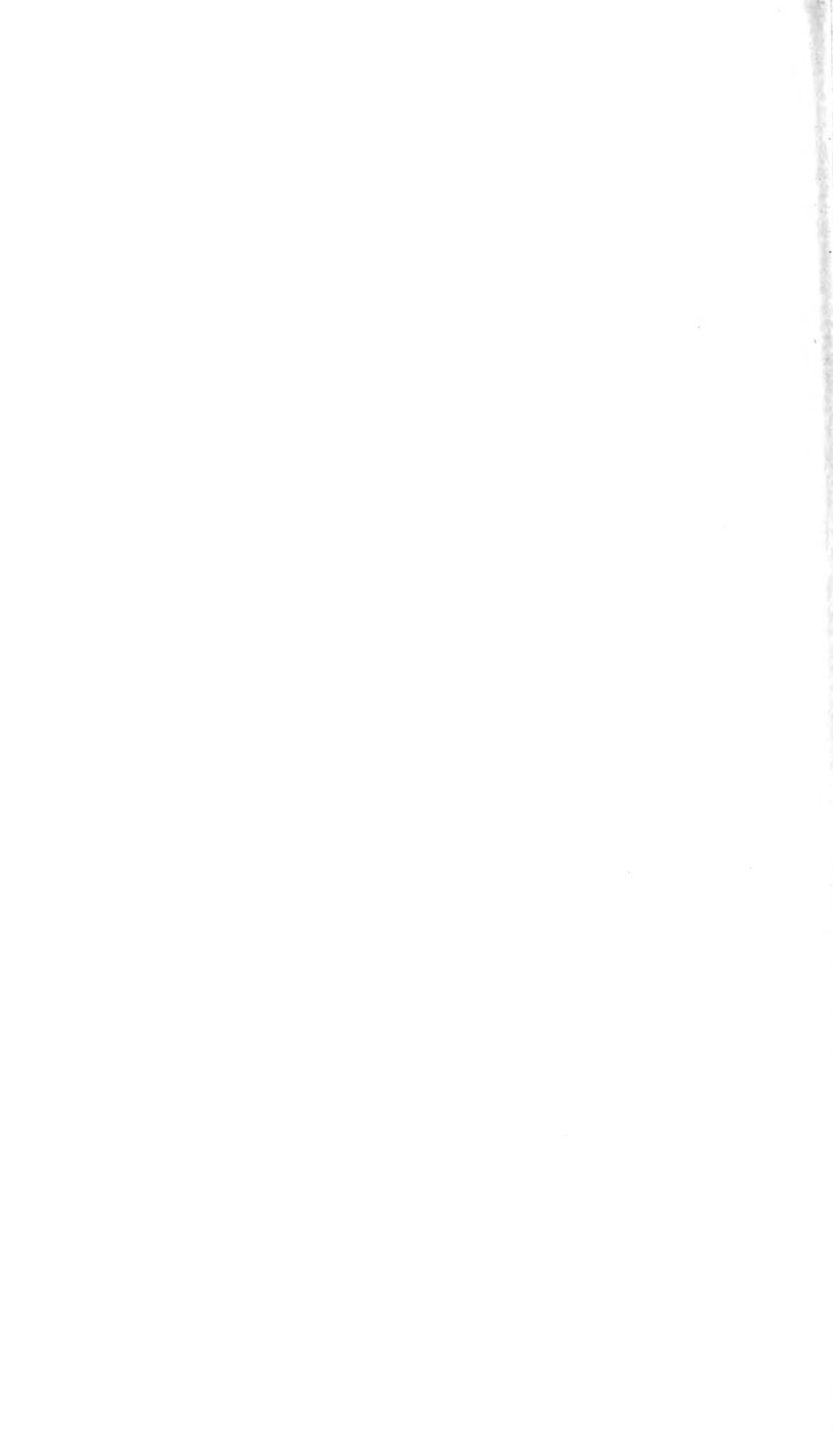
- accent on youth, Federal employment and work experience programs for disadvantaged youths, 15148
- adolescents, facts and figures, 5239
- Air Force special report to youth, 16566
- camp safety survey act—
 - hearing, 12216
 - report, 9320
- Cincinnati police-juvenile attitude project, demonstration project in police-teacher curriculum development to improve police-juvenile relations, 872
- disadvantaged, making the scene in jobs, school, training, through Neighborhood Youth Corps, 4464
- disadvantaged young men prepare for well-paying careers in maritime fleet, training program for cooks, bakers and butchers, 4195
- educational needs of young people today (remarks), 10978
- employment of minors in D.C., amend act rel. to vacation work permits, report, 12184
- Federal programs assisting, 9170
- for guys and gals who are looking for summer jobs, 11598
- honest dissenters (address), 10437
- international conferences, grants to finance travel to, hearings, 405A
- interstate compact on juveniles, adoption by District of Columbia, reports, 12182, 15383
- it's Y.O.U., Youth Organizations United, 14136
- making it, stay ahead, stay in school, 14773
- manual for youth coordinators, 7404
- Nation's youth, chart book, 3867
- Neighborhood Youth Corps, hope and help for youth, 10011
- opportunity centers, focus on youth and jobs, 5889
- opportunity programs, developing, 7403
- out-of-school, work training in industry, preparation for available jobs, 7166
- parents as partners in Health, Education, and Welfare Dept. programs for children and youth, report, 761
- publications, price list, 1328
- school continues for pregnant teenagers, 4185
- summer '68, 7407
- summer youth opportunity program, Transportation Dept., 1968 annual report, 11751
- temper tantrums (remarks), 9824
- U.S., 12-17 years of age, plan and operation of health examination survey, 14811
- USSR, youth experiments with science, USSR study, 844
- volunteers, give and gain in volunteer service to hospitalized veterans, 11768
- Young Americans, you can help fight plant pests, 10495
- Youth, fare case (remarks), 9175
- Youth of America (remarks), 9087
- see also 4-H clubs.
- Youth Communications Week, see National Adult-Youth Communications Week.
- Youth Conservation Corps:
 - establish in Interior and Agriculture Departments—
 - hearing, 8077
 - report, 10867
- Youth Organizations United, it's Y.O.U., 14136
- Youth Week, designate, report, 8043
- Ypsilanti, Mich., Perry Preschool Project, program in compensatory education, 6893
- Yttrium, copper-yttria alloys dispersion-strengthening, 11382
- Yttrium fluoride, phase diagram for KF-YF₃ system, 7216
- Yttrium oxide, hafnia stabilized with, effects of cyclic heating and thermal shock, 14607

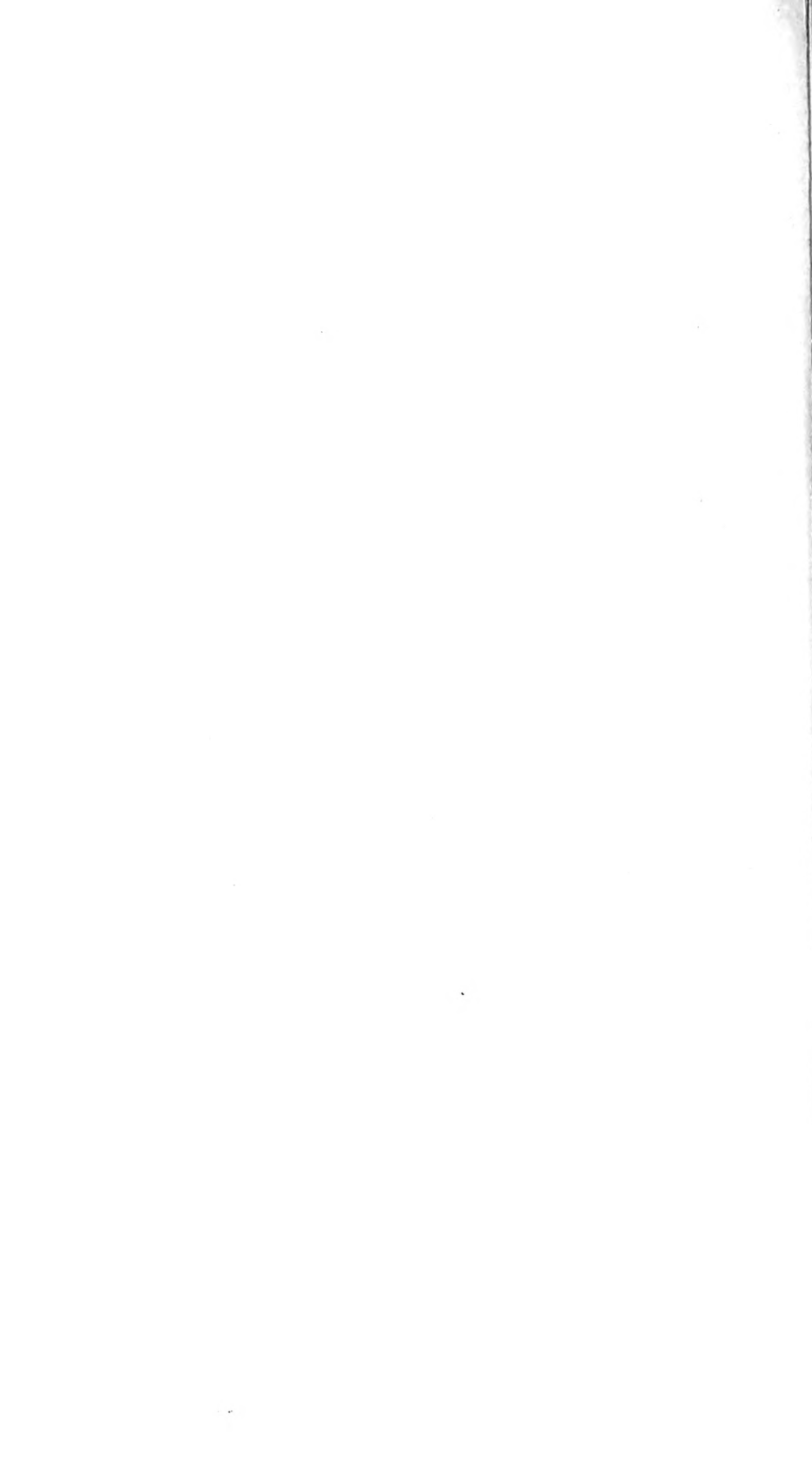
- Yugoslav language, see Serbo-Croatian language.
- Yugoslavia:
 - agricultural commodities, agreement, 7502
 - Ambassador, nomination of William Leonard, hearing, 8065
 - background notes, 4959
 - economic trends and their implications for United States, 7114, 17110
 - market factors, 9205
 - Socialist Federal Republic of Yugoslavia, capsule facts for Armed Forces, 9023
- Yui Wong, see Wong, Yui, and wife.

Z

- Zadeh, L. A., toward theory of fuzzy systems, 16139
- Zagoria, Sam:
 - remarks—
 - Dec. 13, 1968, 2309
 - May 20, 1969, 10196
 - July 14, 1969, 11546
- Zaleski State Forest, lands, deed to Ohio, hearings, 387
- Zambelli, Aleksandar, relief, 9270, 12103, 13963
- Zambia:
 - economic trends and their implications for United States, 8481
 - economy, basic data, 3901
 - mineral industry, minerals yearbook chapter, 4631, 16089
- Zaretsky, Erwin V., rolling-element bearing life from 400 to 600 F., 4730
- Zasada, John C., regeneration of white spruce with reference to interior Alaska, literature review, 15775
- Zellinger, John E., preparation characteristics of coal from Clay, Gilmer and Lewis Counties, W. Va., 4638
- Zeltoun, M. A., disposal of effluents from desalination plants into estuarine waters, etc., 9958, 9973
- Zeleznik, Frank J., comparison of rotational collision numbers obtained from different definitions, 13108
- Zellars, Glenn R., evaluation of results of round robin analysis for oxygen in potassium and sodium, 4709
- Zeller, H. D., geology of Oregon Buttes area, Sweetwater, Sublette, and Fremont Counties, southwestern Wyoming, 4348
- Zeller, John R.:
 - analysis of dynamic performance limitations of fast response (150 to 200 Hz) electrohydraulic servos, 14633
 - design and analysis of modular servoamplifier for fast-response electrohydraulic control systems, 1115
- Zender, George W., compressive properties and column efficiency of metals reinforced on the surface with bonded filaments, 1101
- Zens, Clarence M., international commerce, 2996
- Zero defects, quest for quality, 557
- Zero gravity, coordination of voluntary movements of man in a zero gravitational field (under weightlessness), 13147
- see also Weightlessness.
- Zero surfaces, see Surfaces.
- Zimbrick, J. D., controlled environmental radiiodine tests at National Reactor Testing Station, 1967 progress report, 6468
- Zimmerli, Emma, relief, 13890
- Zimmerman, Eliot W., forest fire detection, 1906
- Zimmermann, Robert C., plant ecology of arid basin Tres Alamos-Redington area south-eastern Ariz., 4361
- Zinc:
 - central Kentucky, Tennessee, and Appalachian zinc districts, mercury and other trace elements in sphalerite and wall-rocks ore deposits, 1957

- Zinc—Continued
 concentration on output of zinc-doped germanium detectors, effects, 1070
 copper-titanium alloy, effect of varied extrusion temperature on properties, 4649
 horizontal zinc retorts, 2179
 industry, mineral industry survey, monthly, 3611
 refining zinc-base die-cast scrap using low cost fluxes, 16106
 lead-zinc exploration, Mississippi Valley, lead isotope guide, 14335
- Zinc oxide:
 laboratory comparison of four zinc oxide-eugenol formulations as restorative materials, 9006
 mineral industry survey, monthly, 3612
- Zinn, Charles J., how our laws are made, 9420, 12144
- Zinn, M. H., influence of electrode material on high-voltage vacuum breakdown, 1568
- Zion National Park, general information, 11554
- ZIP code:
 individual income tax returns, zip code area data, 9980
 Mr. ZIP, who he is, what he does, 7400
see also Post offices.
- Zirconium:
 Cb1Zr pumped sodium loop, 999
 minerals yearbook chapter, 14562
 solubility in liquid potassium, 7270
- Zirconium carbide:
 hypostoichiometric—
 at elevated temperatures, electrical resistivity, 14553
 electric resistance to 2,000°C, 6475
- Zisman, W. A., surface chemistry of plastics reinforced by strong fibers, 14755
- Zito, George V., design and development of multipurpose, boresighted star tracker, 7225
- Zoby, Ernest V., empirical stagnation-point heat-transfer relation in several gas mixtures at high enthalpy levels, 1058
- Zola, Charles L., interplanetary probe missions with solar-electric propulsion systems, 13097
- Zoning, *see* Suburbs.
- Zoogeography, systematics and zoogeography of worldwide bathypelagic squid *Bathyteuthis* (Cephalopoda: Oegopsida), 13181
- Zoology:
 medical and veterinary, index-catalogue, 13, 1498, 3626, 7572-73, 10462, 13542-544
 Smithsonian contributions to zoology, 11662, 13416-430, 14860, 16404, 17373-376
 zoological taxa of William Healey Dall, 1205
- Zoonoses:
 surveillance, National Communicable Disease Center—
 psittacosis annual summary, 11623
 rabies quarterly summary, 11624
- Zooplankton, volumes, 1960, off Pacific coast, 7815
- Zorn, Dale T., in vivo assessment of solubility of tooth enamel during FBM patrol, 923
- Zotter, Bruno, azimuthally dependent modes on uniform, solid electron beams, 3741
- Zrubek, William E., optimum design of communication links with noisy phase reference, 2230
- Zuck, Marjorie, relief, 16846
- Zuk, John:
 computer program for viscous, isothermal compressible flow across sealing dam with small tilt angle, 14621
 investigation of isothermal compressible flow across rotating sealing dam, 14614
 computer program, 16155
- Zupp, George A., jr., applications of quasilinearization theory to system identification, 11489





UNIVERSITY OF ILLINOIS-URBANA

015.73UN35 C001
MONTHLY CATALOG OF UNITED STATES GOVERNMENT
1969 JY-D



3 0112 026452570